

LCM-25 series

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Applications

LED indoor lighting

· LED office lighting

LED panel lighting

GTIN CODE

LED architectural lighting

MW Search: https://www.meanwell.com/serviceGTIN.aspx





IS 15885(Part 2/Sec13) 8 R-41027766



Features

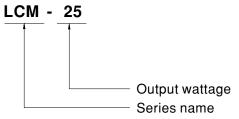
- Constant Current mode output with multiple levels selectable by dip switch
- Plastic housing with class II design
- Built-in active PFC function
- Standby power consumption <0.5W
- Functions: 3 in 1 dimming (dim-to-off); synchronization up to 10 units
- 3 years warranty

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Description

LCM-25 series is a 25W AC/DC constant current mode output LED driver featuring the multiple levels selectable by dip switch. LCM-25 operates from 180 \sim 277VAC and offers different current levels ranging between 350mA and 1050mA. Thanks to the efficiency up to 86%, with the fanless design, the entire series is able to operate for -30 $^{\circ}$ C $^{+85}^{\circ}$ C case temperature under free air convection. LCM-25 is equipped with various functions, such as the dimming function and synchronization, so as to provide the optimal design flexibility for LED lighting system.

Model Encoding





SPECIFICATION

MODEL	ATION	LCM-25									
MODEL											
	CURRENT LEVEL				SWITCH TABLE" section	000	4070				
		350mA	500mA	600mA	700mA(default)	900mA	1050mA				
	RATED POWER	18.9W	25.2W	0	0.001/	0.001/	0.000				
OUTPUT		6 ~ 54V	6~50V	6~42V	6~36V	6~28V	6~24V				
	OPEN CIRCUIT VOLTAGE (max.)	59V			41V						
		5.0% max. @rated o									
		±5%									
	SETUP TIME Note.3)ms / 230VAC								
	VOLTAGE RANGE Note.2	180 ~ 277VAC (Please refer to "ST/	254 ~ 392VDC ATIC CHARACTE	RISTIC" section)							
	FREQUENCY RANGE	47 ~ 63Hz									
	POWER FACTOR (Typ.)	PF≧0.94/230VAC, I (Please refer to "PC		; @full load PF) CHARACTERIS	TIC" section)						
INPUT	TOTAL HARMONIC DISTORTION			load≧75%/277VAC) DISTORTION(THD))" section)						
	EFFICIENCY (Typ.) Note.4	86%									
	AC CURRENT (Typ.)	0.17A/230VAC	0.15A/277VAC								
	INRUSH CURRENT (Typ.)	COLD START 20A(t	width=260µs meas	sured at 50% Ipeak) at	230VAC; Per NEMA 410						
	MAX. No. of PSUs on 16A CIRCUIT BREAKER	26 units (circuit brea	26 units (circuit breaker of type B) / 44 units (circuit breaker of type C) at 230VAC								
	LEAKAGE CURRENT	<0.5mA/240VAC									
	STANDBY POWER CONSUMPTION Note.5	<0.5W									
	SHORT CIRCUIT	Constant current lim	niting, recovers au	tomatically after fault	condition is removed						
PROTECTION	OVER TEMPERATURE	Shut down o/p volta	ge, recovers auto	matically after tempe	rature goes down						
	DIMMING	Please refer to "DIMMING OPERATION" section									
FUNCTION	SYNCHRONIZATION	Please refer to "SYNCHRONIZATION OPERATION" section									
	WORKING TEMP.	Tcase=-30 ~ +85℃	(Please refer to "	OUTPUT LOAD vs TE	EMPERATURE" section)						
	MAX. CASE TEMP.	Tcase=+85°C									
	WORKING HUMIDITY	20 ~ 90% RH non-c	ondensing								
ENVIRONMENT	STORAGE TEMP., HUMIDITY	-40 ~ +80°C , 10 ~ 9	5% RH								
	TEMP. COEFFICIENT	±0.03%/°C (0~50°	С)								
	VIBRATION	10 ~ 500Hz, 2G 10n	nin./1cycle, period	for 60min. each alor	ng X, Y, Z axes						
	SAFETY STANDARDS			ENEC BS EN/EN61 885, EAC TP TC 004	347-1, BS EN/EN61347 approved	-2-13, BS EN/EN6	2384 independent,				
SAFETY &	WITHSTAND VOLTAGE	I/P-O/P:3.75KVAC									
EMC	ISOLATION RESISTANCE	I/P-O/P:>100M Ohn	ns / 500VDC / 25°(C/70% RH							
	EMC EMISSION	Compliance to BS E GB/T 17743, GB176			C(@load≧50%);BSEN	/EN61000-3-3;					
	EMC IMMUNITY	Compliance to BS E EAC TP TC 020	N/EN61000-4-2,3,	4,5,6,8,11, BS EN/EN	61547, light industry level(
	MTBF	3298.3K hrs min.		332 (Bellcore); 29	8.7K hrs min. MIL-H	DBK-217F (25°C)					
OTHERS	DIMENSION	105*68*23mm (L*W	,								
	PACKING	0.16Kg;72pcs/12.5	Kg/1.04CUFT								
NOTE	 All parameters NOT specially mentioned are measured at 230VAC input, rated current and 25°C of ambient temperature. De-rating may be needed under low input voltages. Please refer to "STATIC CHARACTERISTIC" sections for details. Length of set up time is measured at first cold start. Turning ON/OFF the driver may lead to increase of the set up time. Efficiency is measured at 500mA/50V output set by DIP switch. Standby power consumption is measured at 230VAC. The driver is considered as a component that will be operated in combination with final equipment. Since EMC performance will be affected by the complete installation, the final equipment manufacturers must re-qualify EMC Directive on the complete installation again. (as available on https://www.meanwell.com//Upload/PDF/EMI_statement_en.pdf) The ambient temperature derating of 3.5°C/1000m with fanless models and of 5°C/1000m with fan models for operating altitude higher than 2000m(6500) To fulfill requirements of the latest ErP regulation for lighting fixtures, this LED power supply can only be used behind a switch without permanently connected to the mains. Product Liability Disclaimer : For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx 										



900mA

1050mA

ON ON

ON ON

ON ON

ON ON ON ON

---- ON

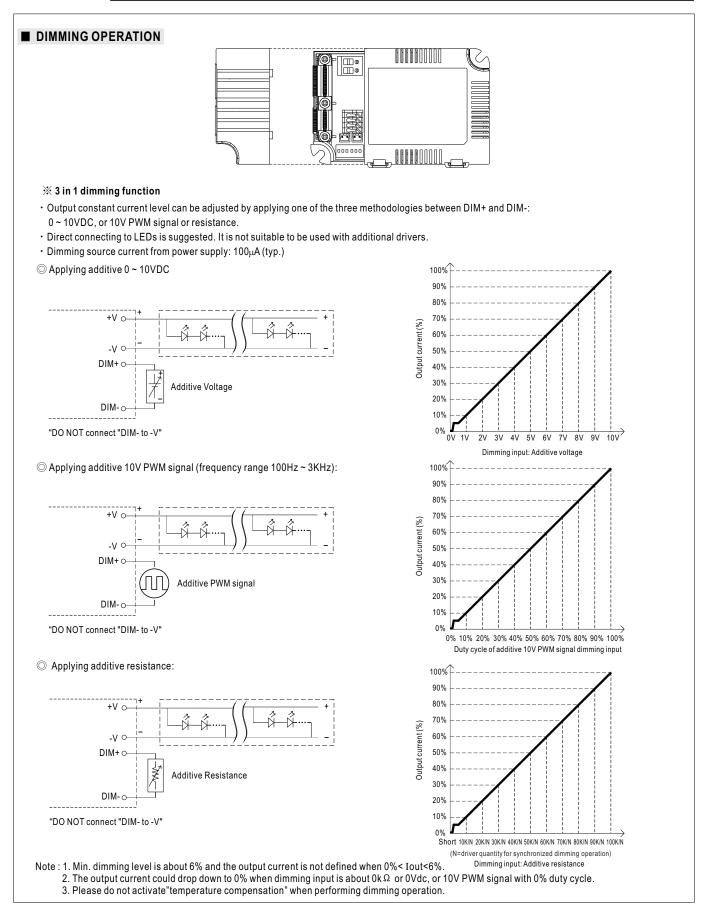
LCM-25 series

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BLOCK DIAGRAM PFC fosc : 45KHz PWM fosc : 70KHz RECTIFIERS EMI FILTER POWER JJ PFC -0 +V I/P O & RECTIFIERS & FILTER SWITCHING CIRCUIT -0 -V CURRENT -0 DIM+ -0 DIM-0.L.P. DETECTION PWM **}**** PFC CONTROL CIRCUIT CONTROL 0.T.P. ■ DIP SWITCH TABLE LCM-25 is a multiple-stage constant current driver, selection of output current through DIP switch is exhibited below. DIP S.W. 1 2 3 4 5 6 lo 350mA ------------------------500mA ----ON ----------------8 ON $\square \square \blacksquare$ ON ON 600mA ----------------700mA(factory default) ON ON ON --------ON 1 2 3 4 5 6



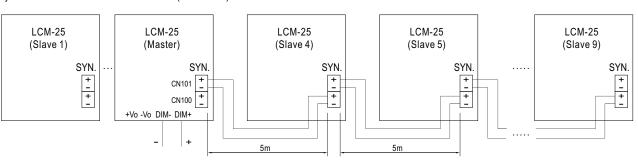
LCM-25 series





SYNCHRONIZATION OPERATION

- Synchronization up to 10 drivers (1 master + 9 slaves)
- Dimming operating range : 10%~100%
- Sync cable length : < 5m
- Sync cable type : Flat cable
- Sync cable cross section area : 22 24 AWG (0.2~0.3mm²)

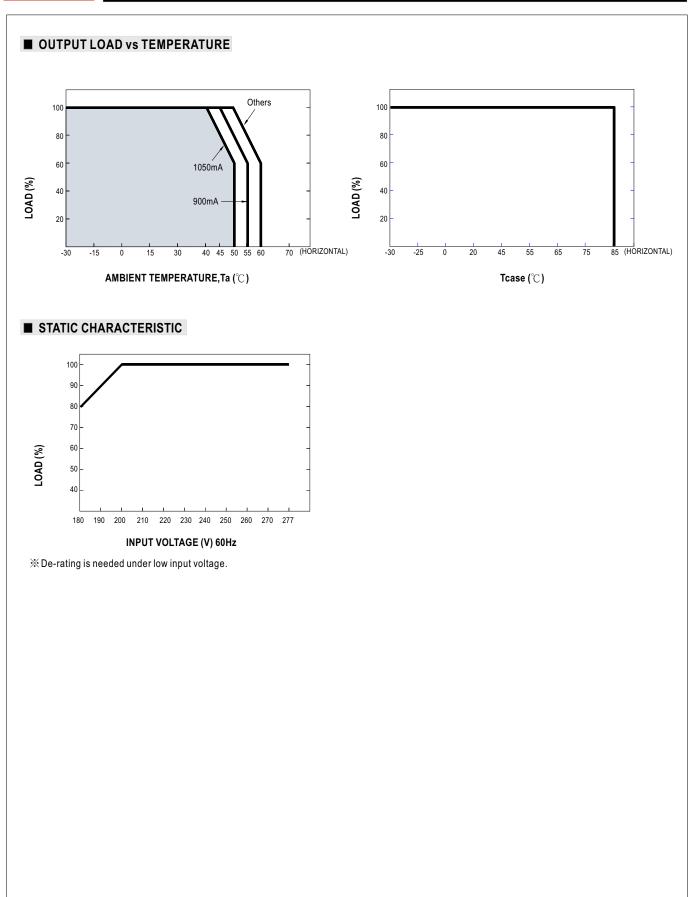


CN100, CN101 : used to synchronously control the LCM units in parallel.

- NOTE: 1. Please make sure all units are set to 100% dimming setting (factory default) before synchronizing.
 - 2. Min. Dimming operating range depends on dimmer setting.



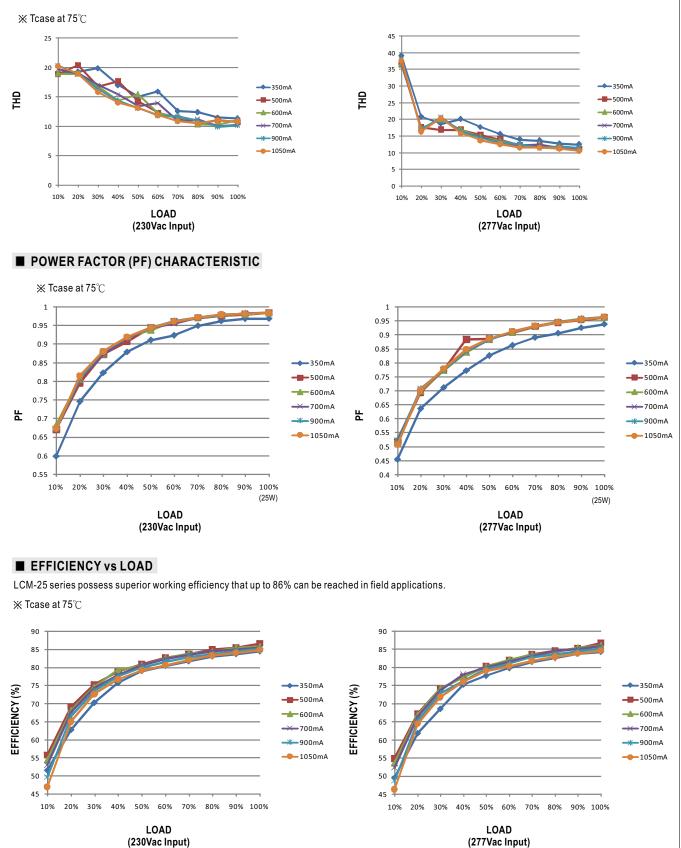
LCM-25 series





LCM-25 series

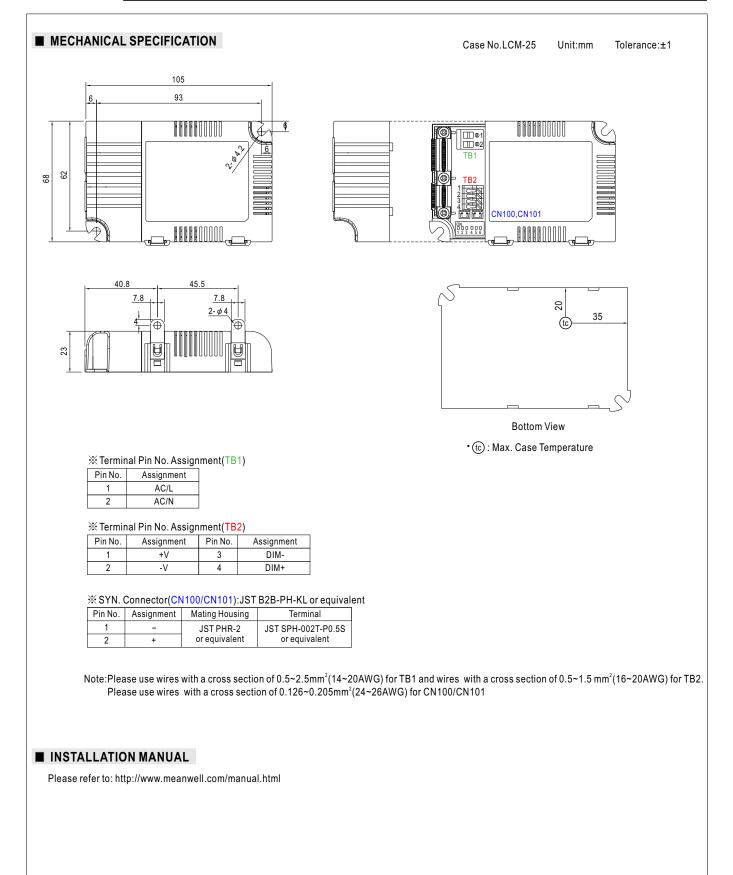
■ TOTAL HARMONIC DISTORTION (THD)



File Name:LCM-25-SPEC 2024-10-16



LCM-25 series









(for DA2-Type only) (for DA-Type only)



Features

- Constant Current mode output with multiple levels selectable by dip switch
- Emergency lighting application is available according to IEC61347-2-13
- Built-in active PFC function and class II design
- Standby power consumption <0.5W
- Functions: DALI interface(logarithm or linear dimming curve selectable), push dimming synchronization up to 10units

- Applications
 - LED indoor lighting
 - LED office lighting
 - LED commercial lighting
 - LED panel lighting
 - Industrial lighting

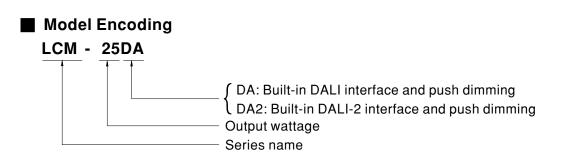
GTIN CODE

MW Search: https://www.meanwell.com/serviceGTIN.aspx

• 3 years warranty

Description

LCM-25DA series is a 25W AC/DC constant current mode output LED driver featuring the multiple levels selectable by dip switch and the DALI interface with the compliance to IEC62386. LCM-25DA operates from 180~277VAC and offers different current levels ranging between 350mA and 1050mA. Thanks to the efficiency up to 86%, with the fanless design, the entire series is able to operate for $-30^{\circ}C + 85^{\circ}C$ case temperature under free air convection. In addition, LCM-25DA is equipped with push dimming and synchronization functions, so as to provide the optimal design flexibility for LED lighting system.



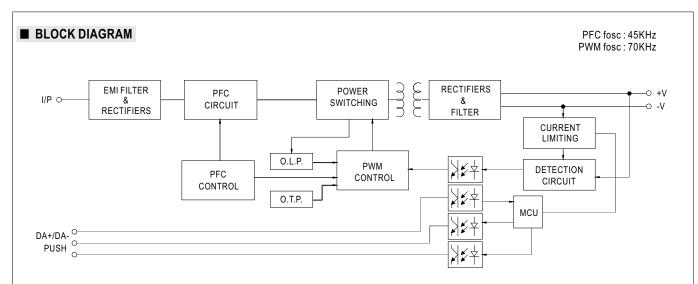


SPECIFICATION

MODEL	ATION	LCM-25						
•			octable via DID evite	h place refer to"DIC		n		
	CURRENT LEVEL			600mA	SWITCH TABLE" section		1050-0	
	RATED POWER	350mA	500mA	AMUU	700mA(default)	900mA	1050mA	
	-	18.9W	25.2W	C 401/	C 201/	C 201/	6~24V	
OUTPUT		6~54V	6~50V	6~42V	6~36V	6~28V	6~24V	
	OPEN CIRCUIT VOLTAGE (max.)	59V	1 6		41V			
	CURRENT RIPPLE	5.0% max. @rat	ed current					
	CURRENT TOLERANCE	±5%						
	SETUP TIME Note.3 Note.8	500ms / 230VAC	;					
	VOLTAGE RANGE Note.2	180 ~ 277VAC (Please refer to	254 ~ 380VDC(2 STATIC CHARACTE	254~375VDC for DA2- ERISTIC" section)	Туре)			
	FREQUENCY RANGE	47 ~ 63Hz						
	POWER FACTOR (Typ.)		AC, PF≧0.91/277\ "POWER FACTOR	/AC@full load (PF) CHARACTERIS	TIC" section)			
	TOTAL HARMONIC DISTORTION	.0		C; @load≧75%/277 C DISTORTION(THD	,			
INPUT	EFFICIENCY (Typ.) Note.4	86%						
	AC CURRENT (Typ.)	0.17A/230VAC	0.15A/277VAC					
	INRUSH CURRENT (Typ.)	COLD START 20	A(twidth=260µs meas	ured at 50% lpeak) at 2	30VAC; Per NEMA 410			
	MAX. No. of PSUs on 16A CIRCUIT BREAKER	26 units (circuit l	oreaker of type B) / 4	4 units (circuit breake	er of type C) at 230VAC			
	LEAKAGE CURRENT	<0.5mA / 240VA	C					
	STANDBY POWER CONSUMPTION Note.5	<0.5W	-					
	SHORT CIRCUIT	Constant curren	limiting recovers a	utomatically after fault	condition is removed			
PROTECTION				-				
	OVER TEMPERATURE			omatically after tempe	rature goes down			
FUNCTION	DIMMING	Please refer to "DIMMING OPERATION" section						
	SYNCHRONIZATION	Please refer to "SYNCHRONIZATION OPERATION" section						
	WORKING TEMP.	Icase=-30 ~ +85	TC (Please refer to	OUTPUT LOAD vs T	EMPERATURE" section)			
	MAX. CASE TEMP.	Tcase=+85℃						
ENVIRONMENT	WORKING HUMIDITY	20 ~ 90% RH no	n-condensing					
	STORAGE TEMP., HUMIDITY	-40 ~ +80℃, 10	~ 95% RH					
	TEMP. COEFFICIENT	±0.03%/°C (0~	50℃)					
	VIBRATION	10 ~ 500Hz, 2G	10min./1cycle, perio	d for 60min. each alo	ng X, Y, Z axes			
	SAFETY STANDARDS	independent,GB	19510.14,GB19510.	1,BIS IS15885(excep	NEC BS EN/EN61347-1, t for DA2-Type), EAC TP nstallations(EL)(AC Inpu	TC 004 approved; A	ccording to	
SAFETY &	DALI STANDARDS	IEC62386-101,	02, 207,251					
EMC	WITHSTAND VOLTAGE	I/P-O/P:3.75KVA	C; I/P-DA:1.5KVAC	; O/P-DA:1.5KVAC				
	ISOLATION RESISTANCE	I/P-O/P:>100M (Ohms / 500VDC / 25	C/ 70% RH				
	EMC EMISSION Note.6	Compliance to B EAC TP TC 020	S EN/EN55015, BS E	EN/EN61000-3-2 Class	s C(@load≧50%) ; BS El	N/EN61000-3-3; GB/	T 17743, GB17625.1,	
	EMC IMMUNITY	Compliance to B EAC TP TC 020	S EN/EN61000-4-2,3	8,4,5,6,8,11, BS EN/EN	l61547, light industry leve	el(surge immunity Lin	e-Line 2KV),	
	MTBF	2661.8K hrs min	. Telcordia SR-33	2 (Bellcore) ; 213.3K	hrs min. MIL-HDBK-21	I7F (25℃)		
OTHERS	DIMENSION	105*68*23mm (L	*W*H)					
	PACKING	0.17Kg ; 72pcs/	3.2Kg/1.04CUFT					
NOTE	 All parameters NOT speciall De-rating may be needed ur Length of set up time is mee Efficiency is measured at 50 Standby power consumption The driver is considered as complete installation, the fina (as available on https://www The ambient temperature de Based on IEC 62386-101/10 can support for DALI power To fulfill requirements of the connected to the mains. Y Product Liability Disclaimer 	der low input vo asured at first col 0mA/50V output i is measured at a component tha al equipment mai meanwell.com//L rating of 3.5°C/1 02 DALI power oi on function, othe latest ErP regula	tages. Please refer d start. Turning ON/ set by DIP switch. 230VAC. t will be operated in hufacturers must re- Jpload/PDF/EMI_sta 200m with fanless r n timing and interrup rwise the set up tim tion for lighting fixture	to "STATIC CHARAC OFF the driver may I combination with fina qualify EMC Directive atement_en.pdf) nodels and of 5°C/10 ption regulations, the le will be higher than res, this LED power s	CTERISTIC" sections for ead to increase of the se al equipment. Since EM e on the complete install 00m with fan models for set up time needs to tes 0.5 second for DA2-type supply can only be used	details. et up time. C performance will lation again. r operating altitude st with a DALI contr e. behind a switch w	higher than 2000m(6500 oller which	



LCM-25DA series

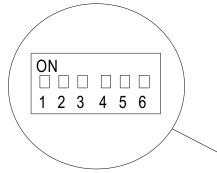


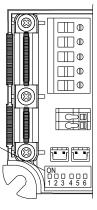
DIP SWITCH TABLE

LCM-25DA/DA2 is a multiple-stage constant current driver, selection of output current through DIP switch is exhibited below.

DIP S.W.	1	2	3	4	5	6
350mA						
500mA	ON					
600mA	ON	ON				
700mA(factory default)	ON	ON	ON			ON
900mA	ON	ON	ON	ON		ON
1050mA	ON	ON	ON	ON	ON	ON

Note: For more current setting, please contact MW's sales.

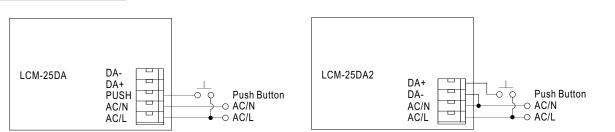






LCM-25DA series

DIMMING OPERATION



℁PUSH dimming(primary side)

Action	Action duration	Function
Short push	0.1~1 sec.	Turn ON-OFF the driver
Long push	1.5~10 sec.	Every Long Push changes the dimming direction, dimming up or down
Reset	>11 sec.	Set up the dimming level to 100%

• The factory default dimming level is at 100%.

- If the push action lasts less than 0.05 sec., it will not lead to a change for the status of the driver.
- Up to 10 drivers can perform the PUSH dimming at the same time when utilizing one common push button.
- The maximum length of the cable from the push button to the last driver is 20 meters.
- The additive push button can be connected only between the PUSH terminal, as displayed in the diagram, and AC/L (in brown or black); it will lead to short circuit if it is connected to AC/N.

*DALI interface(primary side; for DA/DA2-Type)

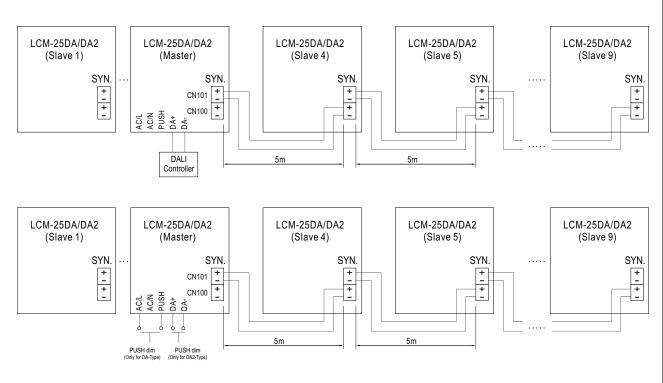
- Apply DALI signal between DA+ and DA-
- DALI protocol comprises 16 groups and 64 addresses.
- First step is fixed at 6% of output.



LCM-25DA series

SYNCHRONIZATION OPERATION

- Synchronization up to 10 drivers (1 master + 9 slaves)
- Dimming operating range : 10%~100%
- Sync cable length : < 5m
- Sync cable type : Flat cable
- Sync cable cross section area : 22 24 AWG (0.2~0.3mm²)

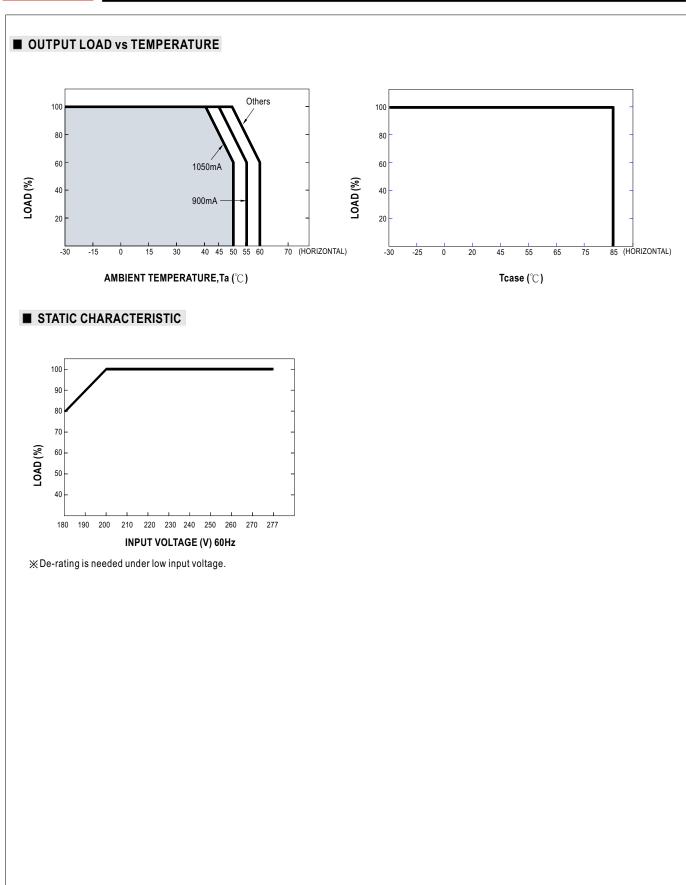


• CN100, CN101 : used to synchronously control the LCM units in parallel.

NOTE: 1. Please make sure all units are set to 100% dimming setting (factory default) before synchronizing. 2. Min. Dimming operating range depends on dimmer setting.

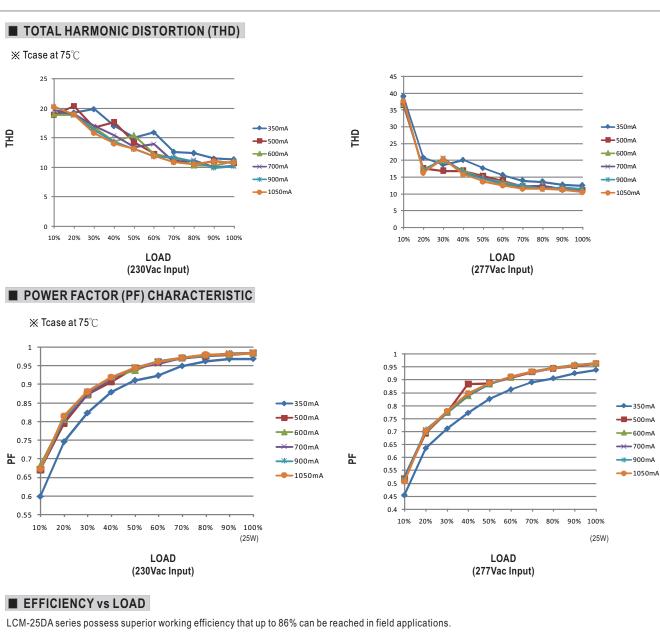


LCM-25DA series

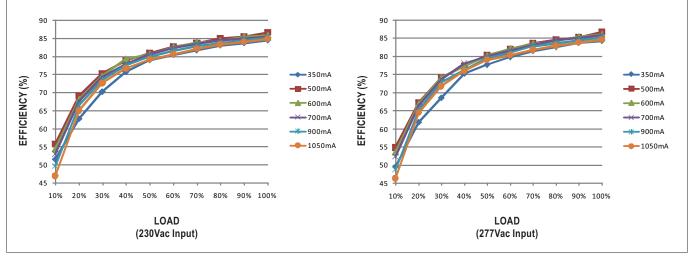




LCM-25DA series



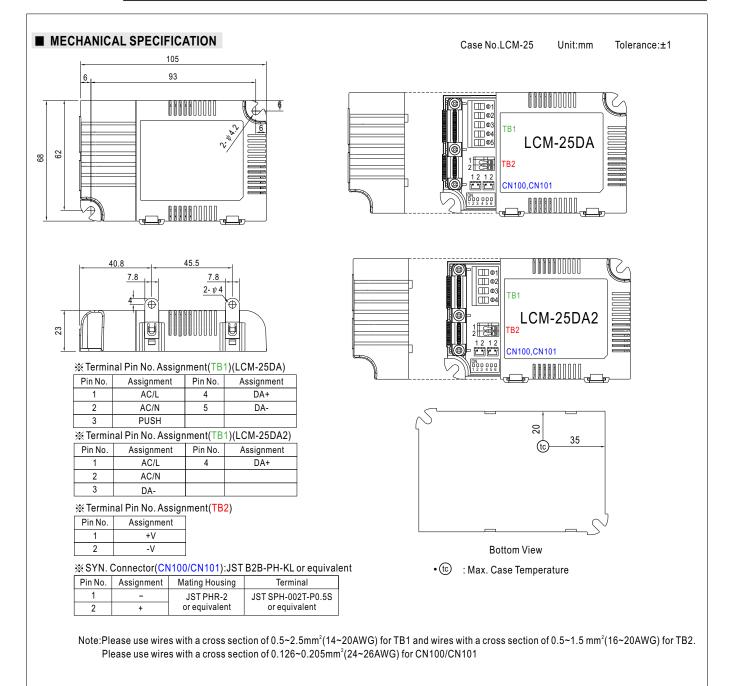
X Tcase at 75℃



File Name:LCM-25DA-SPEC 2024-10-16



LCM-25DA series



■ INSTALLATION MANUAL

Please refer to : http://www.meanwell.com/manual.html



LCM-25KN series







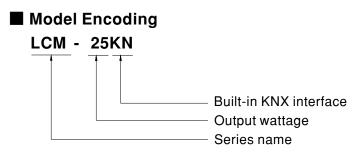


Features

- Constant Current mode output with multiple levels selectable by dip switch
- KNX/EIB protocol
- Flicker free design
- Support emergency lighting(EL)
- · Integrated constant light output
- Integrated KNX push button interface
- · Synchronization up to 10 units
- Functions: Manual dim, operation hours, power consumption feedback, log/linear curve selection...etc
- 3 years warranty

Description

LCM-25KN series is a 25W AC/DC constant current mode output LED driver featuring the multiple levels selectable by dip switch and the KNX interface to avoid using the complicated KNX-DALI gateway. LCM-25KN operates from 180 \sim 277VAC and offers different current levels ranging between 350mA and 1050mA. Thanks to the efficiency up to 85%, with the fanless design, the entire series is able to operate for -30°C \sim +85°C case temperature under free air convection. In addition, LCM-25KN is equipped with push dimming and synchronization so as to provide the optimal design flexibility for LED lighting system.



Applications

- LED indoor lighting
- · LED office lighting
- LED architectural lighting
- LED panel lighting
- Industrial lighting

GTIN CODE

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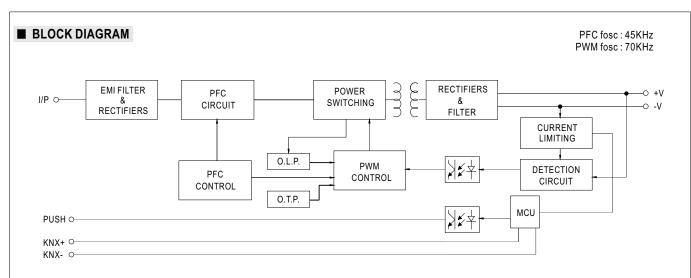


SPECIFICATION

SPECIFIC	ATION										
MODEL		LCM-25KN									
		Current level selecta	ble via DIP switch, ple	ease refer to"DIP	SWITCH TABLE" section						
	CURRENT LEVEL	350mA	500mA	600mA	700mA(default)	900mA	1050mA				
	RATED POWER	18.9W	25.2W								
ουτρυτ	DC VOLTAGE RANGE	6~54V	6~50V	6~42V	6~36V	6~28V	6~24V				
0011 01	OPEN CIRCUIT VOLTAGE (max.)	59V			41V	·					
	CURRENT RIPPLE	5.0% max. @rated cu	urrent								
	CURRENT TOLERANCE	±5%									
	SETUP TIME Note.3	500ms / 230VAC									
	VOLTAGE RANGE Note.2	180 ~ 277VAC 2 (Please refer to "STA	220 ~ 380VDC TIC CHARACTERIST	TIC" section)							
	FREQUENCY RANGE	47 ~ 63Hz									
	POWER FACTOR (Typ.)	PF≧0.94/230VAC, I (Please refer to "PO			TIC" section)						
	TOTAL HARMONIC DISTORTION	THD< 20%(@load≧ (Please refer to "TO									
INPUT	EFFICIENCY (Typ.) Note.4	85%									
	AC CURRENT (Typ.)	0.17A/230VAC	0.15A/277VAC								
	INRUSH CURRENT (Typ.)	COLD START 20A(tw	idth=260µs measured	at 50% Ipeak) at 23	0VAC; Per NEMA 410						
	MAX. No. of PSUs on 16A CIRCUIT BREAKER	26 units (circuit brea	ker of type B) / 44 uni	ts (circuit breake	r of type C) at 230VAC						
	LEAKAGE CURRENT	<0.5mA/240VAC									
	STANDBY POWER CONSUMPTION Note.5	<0.5W									
	SHORT CIRCUIT	Constant current limi	Constant current limiting, recovers automatically after fault condition is removed								
PROTECTION	OVER TEMPERATURE	Shut down o/p voltag	Shut down o/p voltage, recovers automatically after temperature goes down								
	DIMMING	Please refer to "DIM	Please refer to "DIMMING OPERATION" section								
FUNCTION	SYNCHRONIZATION	Please refer to "SYI	NCHRONIZATION O	PERATION" sect	tion						
	WORKING TEMP.	Tcase=-30 ~ +85℃ (Tcase=-30 ~ +85℃ (Please refer to " OUTPUT LOAD vs TEMPERATURE" section)								
	MAX. CASE TEMP.	Tcase=+85℃									
	WORKING HUMIDITY	20 ~ 90% RH non-co	ndensing								
ENVIRONMENT	STORAGE TEMP., HUMIDITY	-40 ~ +80°C , 10 ~ 95	% RH								
	TEMP. COEFFICIENT	±0.03%/°C (0~5	0°C)								
	VIBRATION	10 ~ 500Hz, 2G 10m	in./1cycle, period for	60min. each alon	g X, Y, Z axes						
	SAFETY STANDARDS		3-12, ENEC BS EN/E 5885(Part2/Sec13), E		N/EN61347-2-13, BS EN/I pproved	EN62384 independ	dent, GB19510.14,				
SAFETY &	KNX STANDARDS	certification									
EMC	WITHSTAND VOLTAGE	I/P-O/P:3.75KVAC ;	O/P-KN±:500VDC								
-	ISOLATION RESISTANCE	I/P-O/P:>100M Ohm	s / 500VDC / 25°C / 70	0% RH							
	EMC EMISSION Note.6	Compliance to BS EN GB/T 17743, GB1762		N61000-3-2 Class	C(@load≧50%) ; BS EN/	/EN61000-3-3;					
	EMC IMMUNITY	Compliance to BS EN EAC TP TC 020	I/EN61000-4-2,3,4,5,6	6,8,11, BS EN/EN	61547, light industry level(<i>r</i>				
	MTBF	1994.5K hrs min.	Telcordia SR-332	(Bellcore); 20	1.1K hrs min. MIL-HI	DBK-217F (25°C)					
OTHERS	DIMENSION	105*68*23mm (L*W*H)									
	PACKING	0.173Kg ; 72pcs/13.5	5Kg/1.04CUFT								
NOTE	 All parameters NOT specially mentioned are measured at 230VAC input, rated current and 25°C of ambient temperature. De-rating may be needed under low input voltages. Please refer to "STATIC CHARACTERISTIC" sections for details. Length of set up time is measured at first cold start. Turning ON/OFF the driver may lead to increase of the set up time. Efficiency is measured at 500mA/50V output set by DIP switch. Standby power consumption is measured at 230VAC. The driver is considered as a component that will be operated in combination with final equipment. Since EMC performance will be affected by the complete installation, the final equipment manufacturers must re-qualify EMC Directive on the complete installation again. (as available on https://www.meanwell.com//Upload/PDF/EMI_statement_en.pdf) The ambient temperature derating of 3.5°C/1000m with fanless models and of 5°C/1000m with fan models for operating altitude higher than 2000m(6500f To fulfill requirements of the latest ErP regulation for lighting fixtures, this LED power supply can only be used behind a switch without permanently connected to the mains. X Product Liability Disclaimer : For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx 										



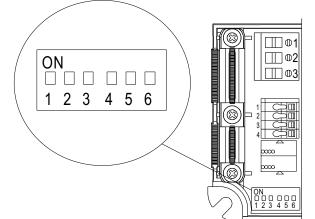
LCM-25KN series



DIP SWITCH TABLE

LCM-25KN is a multiple-stage constant current driver, selection of output current through DIP switch is exhibited below.

DIP S.W.	1	2	3	4	5	6	Max.LED voltage
350mA							54V
500mA	ON						50V
600mA	ON	ON					42V
700mA(factory default)	ON	ON	ON			ON	36V
900mA	ON	ON	ON	ON		ON	28V
1050mA	ON	ON	ON	ON	ON	ON	24V



More current options through DIP switch are listed below.

DIP S.W.	1	2	3	4	5	6	Max.LED voltage
450mA		ON					54V
550mA				ON			46V
800mA	ON	ON		ON			31V

Note: The Max. LED voltage connected at the output should be always less than the table above.



LCM-25KN series

■ DIMMING OPERATION

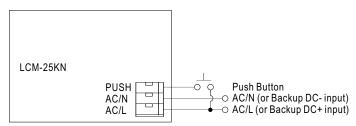
ℜ KNX interface

- Apply KNX Bus cable between KNX+ and KNX-
- The application program(database) can be downloaded via Online Catalogs from ETS or via http://www.meanwell.com/productCatalog.aspx

Parametrization options	Description
Switch functions	 Turn on brightness Dimming speed for turn on/off Switch telegram and status Switch on/off delay
Dimming	 Dimming speed for 0~100% Allow switch on via relative dimming Push dimming with AC inut port Block object for push dimming
Brightness value	 Dimming speed for transition brightness values Permit set switch on and off brightness via value Brightness value and status
Faultmessage	Lamp fault AC/DC input monitor fault messages
Other functions	 Reaction on KNX voltage failure/recovery Power-On level Dimming curve select(linear/log) Synchronous dimming output Block function(Block1&Block2) Staircase lighting function(multi-stage switch-off)
General function	Cyclic monitoring telegram(In operation)
8 Scenes	Recall and save via KNX with 8-bit telegram
Operating hours & CLO	 Operating hours counter Constant light out(5 scheduled divisions)
Power consumption feedback	Power consumption report

※PUSH dimming or AC/DC input monitor(Primary side)

O PUSH dimming



The detail function of PUSH dimming, please refer to the database.

· Up to 10 drivers can perform the PUSH dimming at the same time when utilizing one common push button.

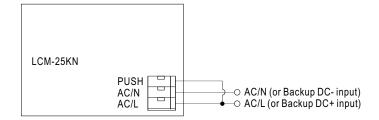
• The maximum length of the cable from the push button to the last driver is 20 meters.

 The additive push button can be connected only between the PUSH terminal, as displayed in the diagram, and AC/L (in brown or black); it will lead to short circuit if it is connected to AC/N.

• In case the PUSH dimming is set locally, up to 10 drivers can perform the PUSH dimming at the same time when utilizing one common push button.

• In case the PUSH dimming is set independently via ETS, the number of drivers is done through group address and determined by the ETS project designer.

◎ AC/DC input monitor



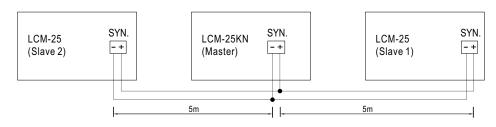
KNX Bus need to connected when using AC/DC input monitor

The detail function of AC/DC input monitor, please refer to the database.



SYNCHRONIZATION OPERATION

- Synchronization up to 10 drivers (1 master + 9 slaves)
- Dimming operating range : 10%~100%
- Sync cable length : < 5m
- Sync cable type : Flat cable
- Sync cable cross section area : 22 24 AWG (0.2~0.3mm²)

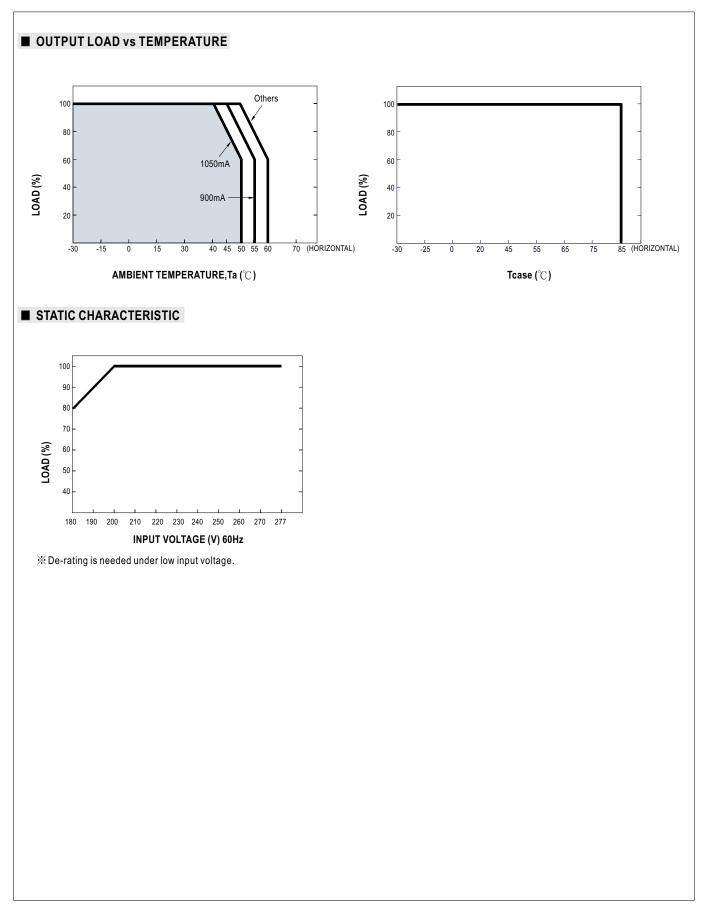


NOTE: 1. Please make sure all units are set to 100% dimming setting (factory default) before synchronizing.

2. Min. Dimming operating range depends on database setting.



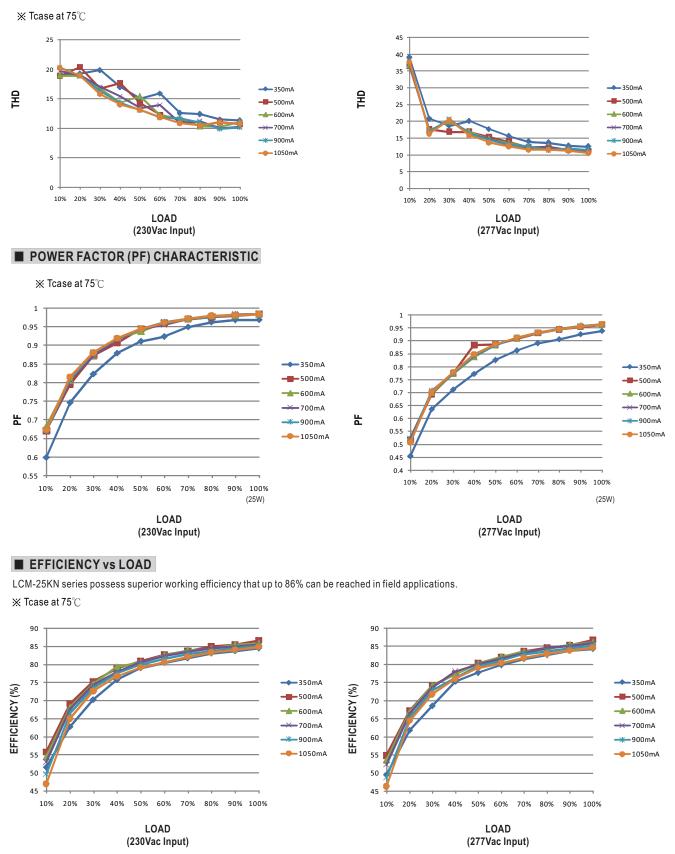
LCM-25KN series





LCM-25KN series

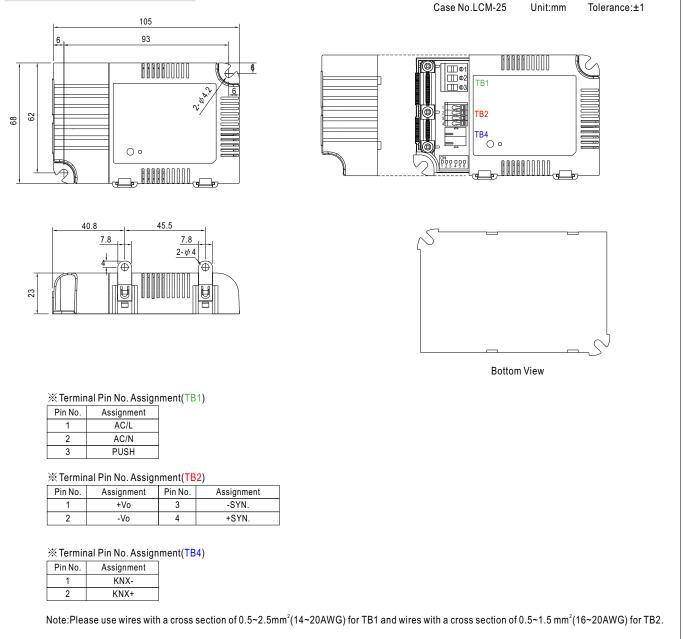






LCM-25KN series

■ MECHANICAL SPECIFICATION



■ INSTALLATION MANUAL

Please refer to : http://www.meanwell.com/manual.html



LCM-40 series

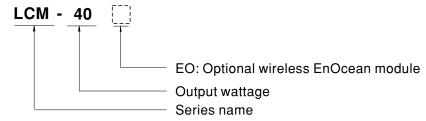


- Optional: Wireless LED driver with integrated EnOcean module
- 3 years warranty

Description

LCM-40 series is a 40W LED AC/DC constant current mode output LED driver featuring the multiple levels selectable by dip switch. LCM-40 operates from $180 \sim 295$ VAC and offers different current levels ranging between 350mA and 1050mA. Thanks to the efficiency up to 92%, with the fanless design, the entire series is able to operate for $-30^{\circ}C \sim +90^{\circ}C$ case temperature under free air convection. LCM-40 is equipped with various functions, such as the dimming function and synchronization, so as to provide the optimal design flexibility for LED lighting system.

Model Encoding



Туре	Function	Note
Blank	3 in 1 dimming (dim-to-off)	In Stock
EO	Wireless driver with integrated EnOcean module	By request



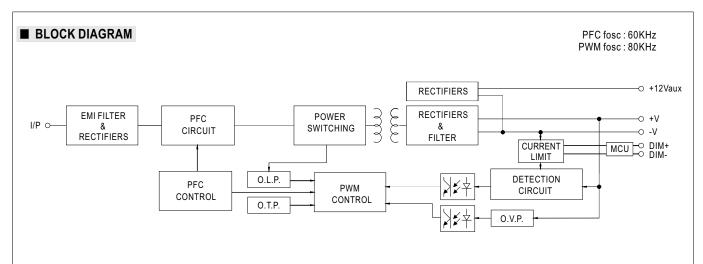


SPECIFICATION

MODEL		LCM-40							
		Current level selec	table via DIP swit	ch, please refer to"DIP	SWITCH TABLE" section				
	CURRENT LEVEL	350mA	500mA	600mA	700mA(default)	900mA	1050mA		
	RATED POWER	42W							
ОЛТРИТ	DC VOLTAGE RANGE	2~100V	2~80V	2~67V	2~57V	2~45V	2~40V		
	OPEN CIRCUIT VOLTAGE (max.)	10V 65V							
	CURRENT RIPPLE Note.5	5.0% max. @rated	current						
	CURRENT TOLERANCE	±5%							
	AUXILIARY DC OUTPUT	Nominal 12V(devia	ation 11.4~12.6V)	@50mA					
	SETUP TIME Note.3	500ms / 230VAC							
	VOLTAGE RANGE Note.2	180 ~ 295VAC (Please refer to "S	254 ~ 417VDC TATIC CHARACT	ERISTIC" section)					
	FREQUENCY RANGE	47 ~ 63Hz							
NPUT	POWER FACTOR (Typ.)	PF≧0.975/230VA0 (Please refer to "P		AC @full load (PF) CHARACTERIS	TIC" section)				
	TOTAL HARMONIC DISTORTION	THD< 20%(@load (Please refer to "T		C DISTORTION(THD)" section)				
	EFFICIENCY (Typ.) Note.4	91%							
	AC CURRENT (Typ.)	0.23A/230VAC	0.2A/277VAC						
	INRUSH CURRENT (Typ.)	COLD START 20A	twidth=260µs mea	asured at 50% Ipeak) at	230VAC; Per NEMA 410				
	MAX. No. of PSUs on 16A CIRCUIT BREAKER	26 units (circuit bre	eaker of type B) / 4	44 units (circuit breake	er of type C) at 230VAC				
	LEAKAGE CURRENT	<0.5mA/240VAC							
	STANDBY POWER CONSUMPTION Note.6	<1W							
	SHORT CIRCUIT	Constant current li	miting, recovers a	utomatically after fault	condition is removed				
		110 ~ 130V							
ROTECTION	OVER VOLTAGE	Shutdown o/p volta	age, re-power on t	o recover					
	OVER TEMPERATURE	Shutdown o/p vol	age.re-power on	to recover					
	WIRELESS PROTOCOL(Optional)				into the memory : 33				
	DIMMING	II) EnOcean standard 868 MHz; Max. device(switch) saved into the memory : 33 Please refer to "DIMMING OPERATION" section							
UNCTION	SYNCHRONIZATION			ON OPERATION" sec	tion				
	TEMP. COMPENSATION				PENSATION OPERATIO	N"section			
	WORKING TEMP.	-			EMPERATURE" section)	N Section			
				OUTFOILEAD VS II	LIVIP EIXATOINE Section)				
	MAX. CASE TEMP.	Tcase=+90℃							
NVIRONMENT		20 ~ 90% RH non-	•						
	STORAGE TEMP., HUMIDITY	-40 ~ +80°C , 10 ~ 9							
	TEMP. COEFFICIENT	±0.03%/°C (0~40	,						
	VIBRATION	10 ~ 500Hz, 2G 10	min./1cycle, perio	od for 60min. each alo	ng X, Y, Z axes				
	SAFETY STANDARDS	UL8750, CSA C22 GB19510.1, BIS IS			7-1, BS EN/EN61347-2-13	8, BS EN/EN62384 i	ndependent,GB19510.		
SAFETY &	WITHSTAND VOLTAGE	I/P-O/P:3.75KVAC							
МС	ISOLATION RESISTANCE	I/P-O/P:>100M Oh							
	EMC EMISSION Note.7	EAC TP TC 020			C(@load≧40%) ; BS EN/E				
					1547, light industry level(su	• •	ine ZKV), EAC TP TC 02		
	MTBF	2397.0K hrs min.		R-332 (Bellcore); 26	u.or. nrs min. MIL-HI	DBK-217F (25°C)			
THERS	DIMENSION	123.5*81.5*23mm	()						
	PACKING	0.24Kg ; 54pcs/15	•						
NOTE	 All parameters NOT special De-rating may be needed u Length of set up time is me Efficiency is measured at 5(5) Current ripple is measured at 6(5) Standby power consumption The driver is considered as complete installation, the fin (as available on https://www To fulfill requirements of the connected to the mains. The ambient temperature d 	nder low input volta asured at first cold 00mA/80V output s 60%~100% of max n is measured at 14 a component that al equipment manu v.meanwell.com//Up latest ErP regulatio erating of 3.5°C/100	ages. Please refe start. Turning ON et by DIP switch. imum voltage un 30~230VAC. will be operated in facturers must re sload/PDF/EMI_s on for lighting fixtu	r to "STATIC CHARA I/OFF the driver may der rated power delive n combination with fin -qualify EMC Directiv tatement_en.pdf) ures, this LED driver c models and of 5°C/10	CTERISTIC" sections for ead to increase of the se ery. al equipment. Since EMC e on the complete installa an only be used behind a 100m with fan models for	details. et up time. C performance will lation again. a switch without pe operating altitude l	rmanently		
	※ Product Liability Disclaimer	: For detailed infor	mation, please re	efer to https://www.me	anwell.com/serviceDiscla	imer.aspx			



LCM-40 series



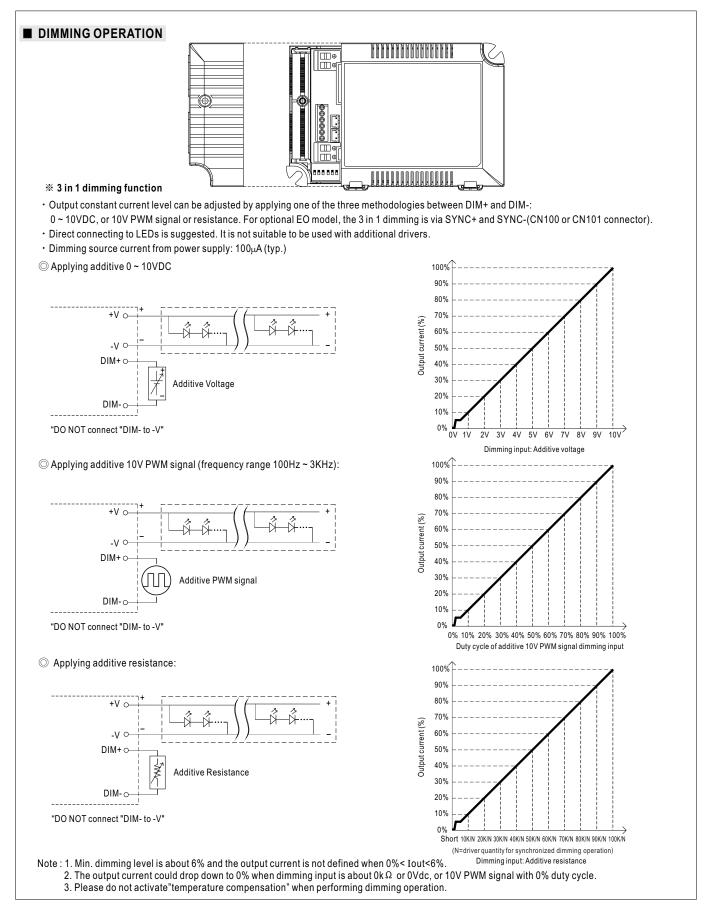
DIP SWITCH TABLE

LCM-40 is a multiple-stage constant current driver, selection of output current through DIP switch is exhibited below.

DIP S.W.	1	2	3	4	5	6
350mA						
500mA	ON					
600mA	ON	ON				
700mA(factory default)	ON	ON	ON			ON
900mA	ON	ON	ON	ON		ON
1050mA	ON	ON	ON	ON	ON	ON



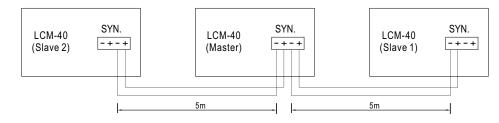
LCM-40 series





SYNCHRONIZATION OPERATION

- Synchronization up to 10 drivers (1 master + 9 slaves)
- Dimming operating range : 10%~100%
- Sync cable length : < 5m
- · Sync cable type : Flat cable
- Sync cable cross section area : 22 24 AWG (0.2~0.3mm²)

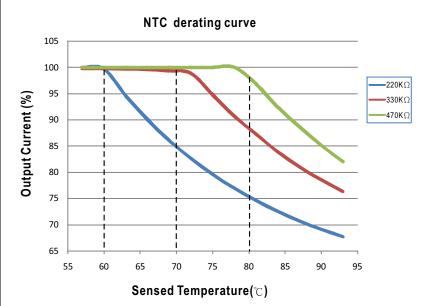


NOTE: 1. Please make sure all units are set to 100% dimming setting (factory default) before synchronizing.

- 2. For optional EO model: the master is EO and the salve could be standard model for economic arrangement.
 - 3. Min. Dimming operating range depends on dimmer setting.

■ TEMPERATURE COMPENSATION OPERATION

LCM-40 have the built-in temperature compensation function; by connecting a temperature sensor (NTC resistor) between the +*NTC*/-*NTC* terminal of LCM-40 and the detecting point on the lighting system or the surrounding environment, output current of LCM-40 could be correspondingly changed, based on the sensed temperature, to ensure the long life of LED.



© LCM-40 can still be operated normally when the NTC resistor is not connected and the value of output current will be the current level selected through the DIP switch.

◎ NTC reference:

NTC resistance	Output Current
220K	< 60 $^{\circ}$ C, 100% of the rated current (corresponds to the setting current level) > 60 $^{\circ}$ C, output current begins to reduce, please refer to the curve for details.
330K	$<70^\circ\rm{C}$, 100% of the rated current (corresponds to the setting current level) $>70^\circ\rm{C}$, output current begins to reduce, please refer to the curve for details.
470K	< 80°C, 100% of the rated current (corresponds to the setting current level) > 80°C, output current begins to reduce, please refer to the curve for details.

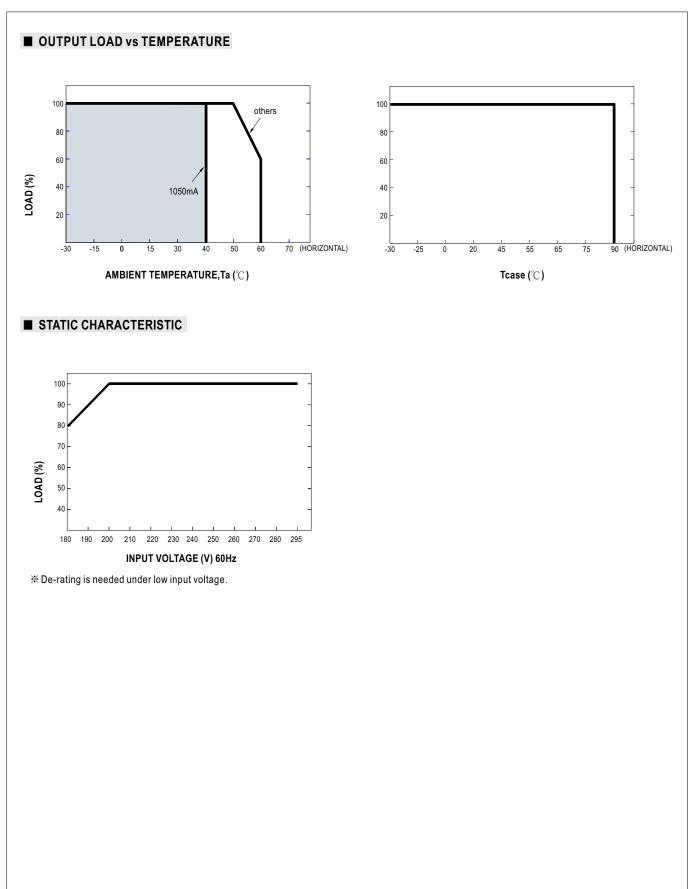
Notes: 1. MEAN WELL does not offer the NTC resistor and all the data above are measured by using THINKING TTC03 series.

2. If other brands of NTC resistor is applied, please check the temperature curve first.

O Dimming and synchronization function of the driver will be invalid when the "temperature compensation" function is in use.



LCM-40 series





45.0%

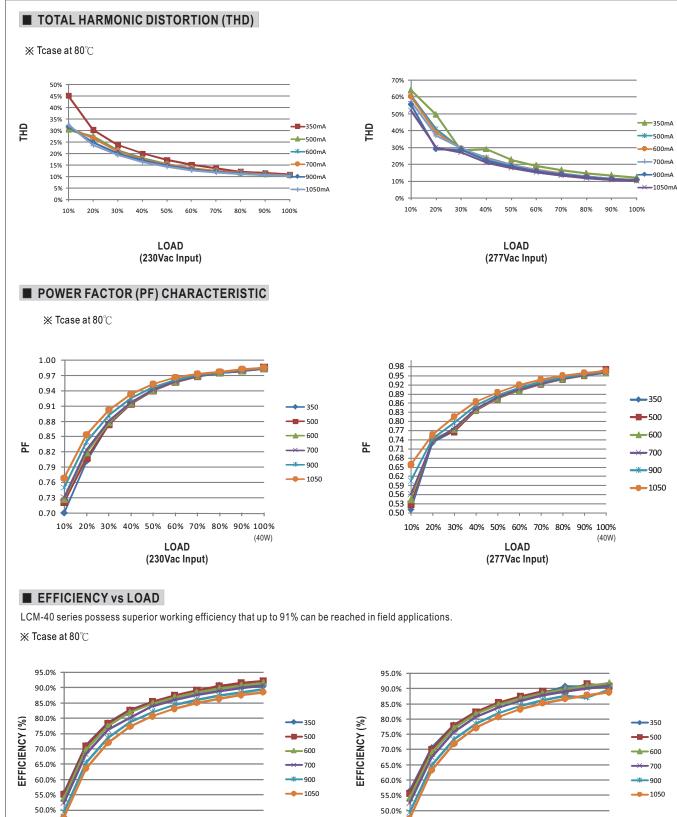
10% 20% 30% 40% 50% 60% 70% 80% 90% 100%

LOAD

(230Vac Input)

40W Multiple-Stage Constant Current Mode LED Driver

LCM-40 series



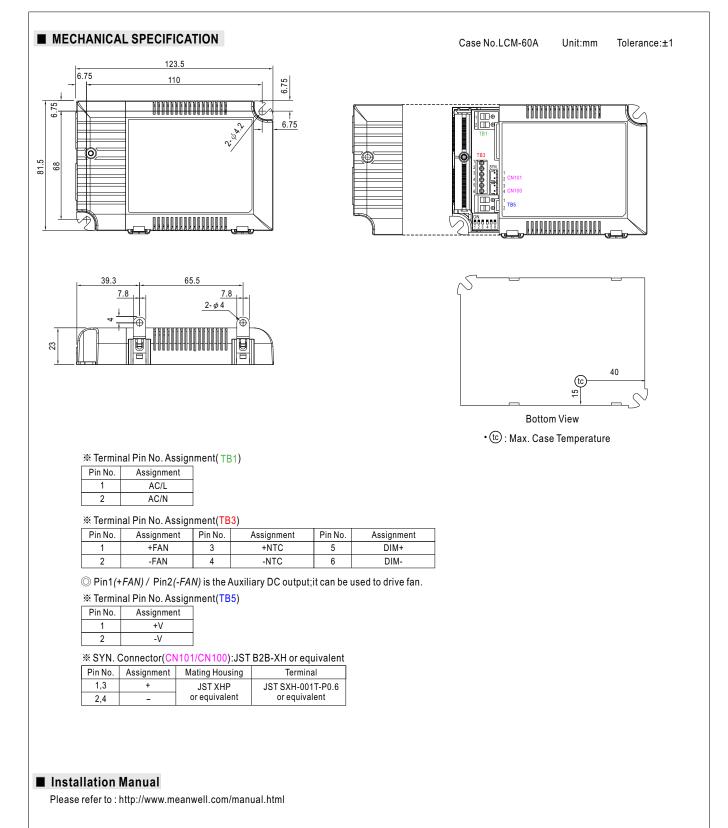
45.0%

10% 20% 30% 40% 50% 60% 70% 80% 90% 100%

File Name:LCM-40-SPEC 2024-10-16



LCM-40 series





LCM-40 series

* The following is only for Optional EO model:

LRN button description

LRN (Learn) Button:

Shortly press (around 2 second) the button to enter linking (pairing) / unlinking mode.

The LED lamp connected at the output of LCM starts toggling between 10% and 90% indicating that linking mode is active. Once activated, this mode stays active to provide time to link or unlink multiple switches. The mode will stop and back to normal mode after 30 seconds if no wireless telegram from switch is received.

For the switch to be linked, click the "I" button (top button marked on the switch plastic or "I" symbol on the back of the switch 4 times quickly, In case the output is continuous 100% 4 seconds, it mean the switch is linked successfully.

The LED driver is now ready to accept new links on another switch.

In case a linked switch to be unlinked, please use the same action as described from the linking method above. To exit linking / unlinking mode and return to normal operation, wait 30 seconds without doing anything or shortly press the button again. In order to clear all linked switches and reset the LED driver to factory settings, please press and hold the button for 10 seconds.

■ Installation & Pairing

Hareware connection: 1.Connect the LED lamp to the driver. 2.Connect the driver to the AC mains.

There are two approaches for linking(pairing): 1.Using the LRN button on the driver The instruction is in the LRN button description.

2.Using the NAVIGAN wireless software Benefit to use NAVIGAN is more dimming parameters can be configured .

The software can be download in the website link below. http://www.navigan.com/ After the software installation, insert the NWC300 into one of USB port from the computer.

For more details, please check the manual.

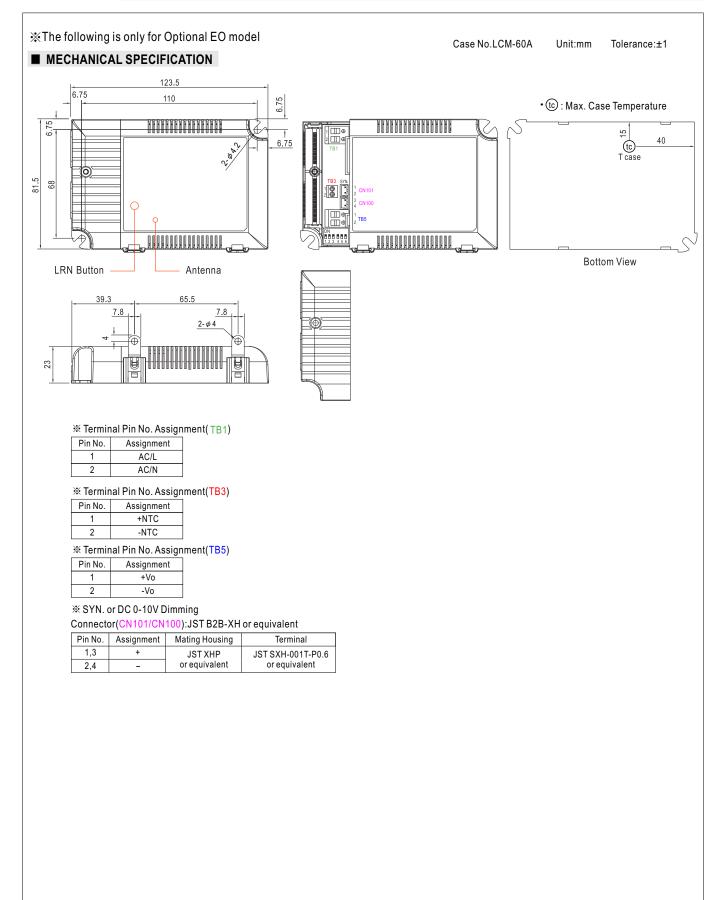


NWC300

	Controller Workspace Discover controllers and add target controllers to the workgace	
	in order to modify their links or parameters.	
	Security Code Default Discover Construition Links Configuration Security Name Type '1' Secure Links and the security and such	
Connected to COM4	Use or used and and	nes wan canastan
	Linked Devices Name	ID Type Y
Please select the type of project		
Looing from J	American American	



LCM-40 series





LCM-40 series

■ Interoperable products / EnOcean Equipment Profile(EEP)

Support Equipment	Telegram
Rocker Pad Switch	F6-02-02
Occupancy Sensor	F5-07-01
Occupancy Sensor	A5-07-02
Occupancy Sensor	A5-07-03
Light Level Sensor	A5-06-02
Light Level Sensor	A5-06-03
Central Controller	A5-38-08
Demand Response	A5-37-01

Batteryless wireless switch supplier

MW order code:WPD-06SWT. There are many other switch supplier listed in the below.



Manufacturer	Model*
Legrand	0 784 42
Siemens	5WG4222-3AB10
Berker	24121009
Jung	ENO A 595
Busch-jaeger	EASYSENS/ENOCEAN
Gira	2422 03
Peha	D 455/61.022 FU-BLS N
Eltako	F4T65
VIMAR	20505+20506.B+21507.B

*: The model list is rovided for reference. For more information please contact original supplier



World Coverage Map

COUNTRY/REGION	STANDARD	FREQUENCY
Aruba	Possibly R & TTE Directive	868 MHz-Confirm with test house
Australia / New Zealand	N.A.	
Barbados	N.A.	Note1
Bermuda	N.A.	Note1
Bolivia	N.A.	Note1
Brazil	ANATEL	868 MHz
British Virgin Islands	N.A.	Note1
Cayman Islands	Possibly R & TTE Directive	868 MHz
CEPT(European regional)*	BS EN/EN 300 220	868 MHz
Chile	Possibly R & TTE Directive	868 MHz
China	CNAS/MITT BS EN/EN 300 220	868 MHz
Colombia	Possibly ANATEL	868 MHz
Ecuador	N.A.	Note1
El Salvador	Possibly R & TTE Directive	868 MHz
French Guiana	ETSI BS EN/EN 300 220	868 MHz
Guatemala	N.A.	Note1
Hong Kong	Possibly 315MHz	Note1
India	Possibly 315MHz	Note1
Israel	Possibly 315MHz	Note1
Jamaica	N.A.	Note1
Japan 920**	ARIB STD-T108	928 MHz
Malaysia	SKMM WTS SRD / BS EN/EN 300 220	868 MHz
Mexico	We believe Mexico does not accept FCC	868 MHz
Nicaragua	N.A.	Note1
Peru	N.A.	Note1
Panama	FCC CFR47 Part 15.249	902 MHz
Russia	N.A.	
Singapore	TS SRD / BS EN/EN 300 220	868 MHz
South Africa	CASA / BS EN/EN 300 220	868 MHz
South Korea	N.A.	
Suriname	N.A.	Note1
Taiwan	Possibly 315 MHz	Note1
Trinidad & Tabago	N.A.	Note1
Turks & Caicos Islands	Possibly R & TTE Directive	868 MHz
UAE	BS EN/EN 300 220	868 MHz
Uruguay	N.A.	Note1
USA/Canada	FCC CFR47 Part 15.249	315 MHz, 902 MHz

Note1: It is suggested to check with local accredited certification angency.

*CEPT is the European regional organization dealing with postal and telecommunications issues and presently has 45 Members: Albania, Andorra, Austria, Azerbaijan, Belarus, Belgium, Bosnia and Herzegovina, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Liechtenstein, Lithuania, Luxembourg, Malta, Moldova, Monaco, Netherlands, Norway, Poland, Portugal, Romania, Russian Federation, San Marino, Serbia and Montenegro, Slovakia, Slovenia, Spain, Sweden, Switzerland, The former Yugoslav Republic of Macedonia, Turkey, Ukraine, United Kingdom, and Vatican.

**In February 2012, Japanese regulatory body ARIB(Association of Radio Industries and Businesses) released new 920 MHZ frequency band for radio equipment, due to LTE rollout, The 950 MHz frequency band will be obsolete by end of 2015.











Features

- Constant Current mode output with multiple levels selectable by dip switch
- Emergency lighting application is available according to IEC61347-2-13
- Built-in active PFC function and class II design
- Standby power consumption <0.5W
- Functions: DALI interface(logarithm or linear dimming curve selectable), push dimming synchronization up to 10units

Applications

- LED indoor lighting
- LED office lighting
- LED commercial lighting
- LED panel lighting
- Industrial lighting

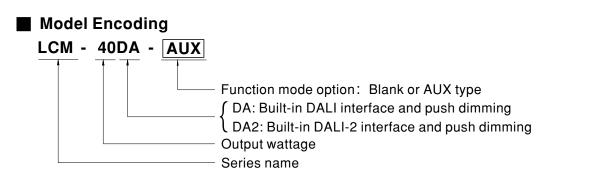
GTIN CODE

MW Search: https://www.meanwell.com/serviceGTIN.aspx

• 3 years warranty

Description

LCM-40DA series is a 40W AC/DC constant current mode output LED driver featuring the multiple levels selectable by dip switch and the DALI interface with the compliance to IEC62386. LCM-40DA operates from 180~295VAC and offers different current levels ranging between 350mA and 1050mA. Thanks to the high efficiency up to 91%, with the fanless design, the entire series is able to operate for $-30^{\circ}C \rightarrow +90^{\circ}C$ case temperature under free air convection. In addition, LCM-40DA is equipped with push dimming and synchronization functions, so as to provide the optimal design flexibility for LED lighting system.



Туре	Function	Note
Blank	standby power consumption <0.5W	In Stock
AUX	standby power consumption <1.2W and Auxiliary DC output(12V/50mA)	By request



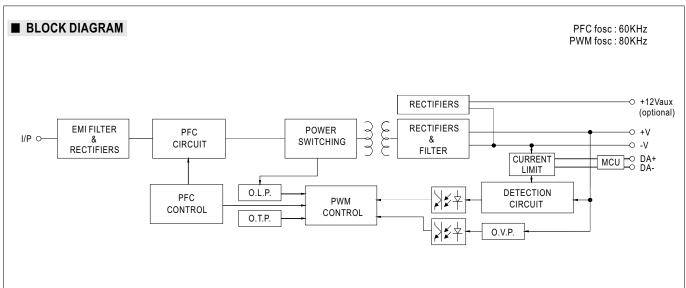
LCM-40DA series

SPECIFICATION

MODEL		LCM-40 -										
		Current level selec	table via DIP switch	i, please refer to"DIP	SWITCH TABLE" section							
	CURRENT LEVEL	350mA	500mA	600mA	700mA(default)	900mA	1050mA					
	RATED POWER	42W		0001111	. com (dolduit)							
	DC VOLTAGE RANGE	2~100V	2~80V	2~67V	2~57V	2~45V	2~40V					
OUTPUT	OPEN CIRCUIT VOLTAGE (max.)	110V	2 00 0	2 011	65V	2 43 4	2 400					
	CURRENT RIPPLE Note.5	-	% max. @rated current									
)										
		±5%	‰ ninal 12V(deviation 11.4∼12.6V)@50mA for AUX-Type only									
	AUXILIARY DC OUTPUT	,										
	SETUP TIME Note.3 Note.9	500ms / 230VAC										
	VOLTAGE RANGE Note.2	180 ~ 295VAC (Please refer to "S	254 ~ 392VDC TATIC CHARACTE	RISTIC" section)								
	FREQUENCY RANGE	RANGE 47 ~ 63Hz										
	POWER FACTOR (Typ.)	WER FACTOR (Typ.) PF≥0.975/230VAC, PF≥0.95/277VAC@full load (Please refer to "POWER FACTOR (PF) CHARACTERISTIC" section)										
	TOTAL HARMONIC DISTORTION	THD< 20%(@load (Please refer to "T		DISTORTION(THD)" section)							
INPUT	EFFICIENCY (Typ.) Note.4	91%										
	AC CURRENT (Typ.)	0.23A/230VAC	0.2A/277VAC									
	INRUSH CURRENT (Typ.)	COLD START 20A	twidth=260µs measu	red at 50% lpeak) at 23	00VAC; Per NEMA 410							
	MAX. No. of PSUs on 16A CIRCUIT BREAKER	26 units (circuit bre	eaker of type B) / 44	units (circuit breake	r of type C) at 230VAC							
	LEAKAGE CURRENT	<0.5mA / 240VAC										
	STANDBY POWER CONSUMPTION Note.6	<0.5W for Blank-Ty	/pe, <1.2W for AUX	-Туре								
	SHORT CIRCUIT	Constant current li	miting recovers aut	omatically after fault	condition is removed							
			initing, recovers au		contaition is removed							
PROTECTION	OVER VOLTAGE		110 ~ 130V Shutdown o/p voltage, re-power on to recover									
	OVER TEMPERATURE	Shutdown o/p volt	Shutdown o/p voltage,re-power on to recover									
	DIMMING	Please refer to "DI	IMMING OPERATI	ON" section								
FUNCTION	SYNCHRONIZATION	Please refer to "SYNCHRONIZATION OPERATION" section										
	TEMP. COMPENSATION	By external NTC, p	please refer to "TE	MPERATURE COM	PENSATION OPERATIO	N"section						
	WORKING TEMP.	Tcase=-30 ~ +90°C	C (Please refer to " (OUTPUT LOAD vs TE	MPERATURE" section)							
	MAX. CASE TEMP.	Tcase=+90℃										
	WORKING HUMIDITY	20 ~ 90% RH non-0	condensina									
ENVIRONMENT	STORAGE TEMP., HUMIDITY	-40 ~ +80°C, 10 ~ 9	-									
	TEMP. COEFFICIENT	±0.03%/°C (0~										
	VIBRATION	•	,	for 60min. each alor								
	SAFETY STANDARDS	UL8750(except for independent, GB1	r DA2-Type), CSA (9510.14, GB19510	C22.2 No.250.13-12 0.1, BIS IS15885(exc	<u> </u>	TP TC 004 approv	, 0					
	DALI STANDARDS	IEC62386-101, 102		able for energency		a. 200-270 vac)(10						
SAFETY &	WITHSTAND VOLTAGE	,	;I/P-DA:1.5KVAC; C									
EMC	ISOLATION RESISTANCE		ms / 500VDC / 25°C									
	EMC EMISSION Note.7	Compliance to BS I		V/EN61000-3-2 Class	C(@load≧40%); BS EN	/EN61000-3-3;						
	EMC IMMUNITY				61547, light industry level(surge immunity Lin	ie-Line 2KV),					
	MTBF	2271.4K hrs min.	Telcordia SR-332	(Bellcore) ; 193.7K h	rs min. MIL-HDBK-217	′F (25℃)						
OTHERS	DIMENSION	123.5*81.5*23mm		, ,		· - /						
	PACKING	0.24Kg ; 54pcs/15Kg/1.12CUFT										
NOTE	 All parameters NOT specially mentioned are measured at 230VAC input, rated current and 25℃ of ambient temperature. De-rating may be needed under low input voltages. Please refer to "STATIC CHARACTERISTIC" sections for details. Length of set up time is measured at first cold start. Turning ON/OFF the driver may lead to increase of the set up time. Efficiency is measured at 500mA/80V output set by DIP switch. Current ripple is measured 50%~100% of maximum voltage under rated power delivery. Standby power consumption is measured at 180~230VAC. The driver is considered as a component that will be operated in combination with final equipment. Since EMC performance will be affected by the complete installation, the final equipment manufacturers must re-qualify EMC Directive on the complete installation again. (as available on https://www.meanwell.com//Upload/PDF/EMI_statement_en.pdf) The ambient temperature derating of 3.5℃/1000m with fanless models and of 5℃/1000m with fan models for operating altitude higher than 2000m(6500f) Based on IEC 62386-101/102 DALI power on timing and interruption regulations, the set up time needs to test with a DALI controller which can support for DALI power on function, otherwise the set up time will be higher than 0.5 second for DA2-type. To fulfill requirements of the latest ErP regulation for lighting fixtures, this LED power supply can only be used behind a switch without permanently connected to the mains. % Product Liability Disclaimer : For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx 											



LCM-40DA series



DIP SWITCH TABLE

LCM-40DA/DA2 is a multiple-stage constant current driver, selection of output current through DIP switch is exhibited below.

DIP S.W.	1	2	3	4	5	6
350mA						
500mA	ON					
600mA	ON	ON				
700mA(factory default)	ON	ON	ON			ON
900mA	ON	ON	ON	ON		ON
1050mA	ON	ON	ON	ON	ON	ON

Note: For more current setting, please contact MW's sales.



LCM-40DA series

DIMMING OPERATION



℁PUSH dimming(primary side)

Action	Action duration	Function
Short push	0.1~1 sec.	Turn ON-OFF the driver
Long push	1.5~10 sec.	Every Long Push changes the dimming direction, dimming up or down
Reset	>11 sec.	Set up the dimming level to 100%

• The factory default dimming level is at 100%.

• If the push action lasts less than 0.05 sec., it will not lead to a change for the status of the driver.

• Up to 10 drivers can perform the PUSH dimming at the same time when utilizing one common push button.

• The maximum length of the cable from the push button to the last driver is 20 meters.

• The additive push button can be connected only between the PUSH terminal, as displayed in the diagram, and AC/L (in brown or black); it will lead to short circuit if it is connected to AC/N.

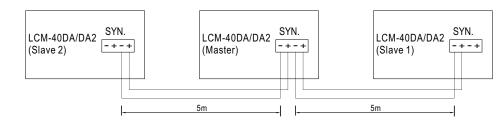
※DALI interface(primary side; for DA/DA2-Type)

- · Apply DALI signal between DA+ and DA-
- DALI protocol comprises 16 groups and 64 addresses.
- · First step is fixed at 6% of output.



SYNCHRONIZATION OPERATION

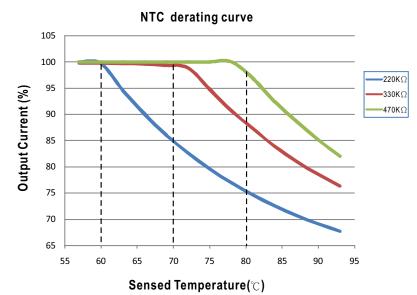
- Synchronization up to 10 drivers (1 master + 9 slaves)
- Dimming operating range : 10%~100%
- Sync cable length : < 5m
- Sync cable type : Flat cable
- Sync cable cross section area : 22 24 AWG (0.2~0.3mm²)



NOTE: 1. Please make sure all units are set to 100% dimming setting (factory default) before synchronizing. 2. Min. Dimming operating range depends on dimmer setting.

■ TEMPERATURE COMPENSATION OPERATION

LCM-40DA/DA2 have the built-in temperature compensation function; by connecting a temperature sensor (NTC resistor) between the +NTC / -NTC terminal of LCM-40DA/DA2 and the detecting point on the lighting system or the surrounding environment, output current of LCM-40DA/DA2 could be correspondingly changed, based on the sensed temperature, to ensure the long life of LED.



© LCM-40DA/DA2 can still be operated normally when the NTC resistor is not connected and the value of output current will be the current level selected through the DIP switch.

NTC reference:

NTC resistance	Output Current
220K	< $60^{\circ}C$, 100% of the rated current (corresponds to the setting current level) > $60^{\circ}C$, output current begins to reduce, please refer to the curve for details.
330K	< 70 $^{\circ}$ C, 100% of the rated current (corresponds to the setting current level) > 70 $^{\circ}$ C, output current begins to reduce, please refer to the curve for details.
470K	< 80°C, 100% of the rated current (corresponds to the setting current level) > 80°C, output current begins to reduce, please refer to the curve for details.

 $Notes: 1. MEAN \ WELL \ does \ not \ offer \ the \ NTC \ resistor \ and \ all \ the \ data \ above \ are \ measured \ by \ using \ THINKING \ TTC03 \ series.$

2. If other brands of NTC resistor is applied, please check the temperature curve first.

O Dimming and synchronization function of the driver will be invalid when the "temperature compensation" function is in use.



LCM-40DA series

■ OUTPUT LOAD vs TEMPERATURE Others LOAD (%) LOAD (%) 1050mA 90 (HORIZONTAL) 70 (HORIZONTAL) -30 -15 -30 -25 AMBIENT TEMPERATURE, Ta (°C) Tcase (°C) STATIC CHARACTERISTIC LOAD (%) 220 230 240 250 260 270 280 295 INPUT VOLTAGE (V) 60Hz % De-rating is needed under low input voltage.



EFFICIENCY (%)

75.0%

70.0%

65.0%

60.0%

55.0%

50.0%

45.0%

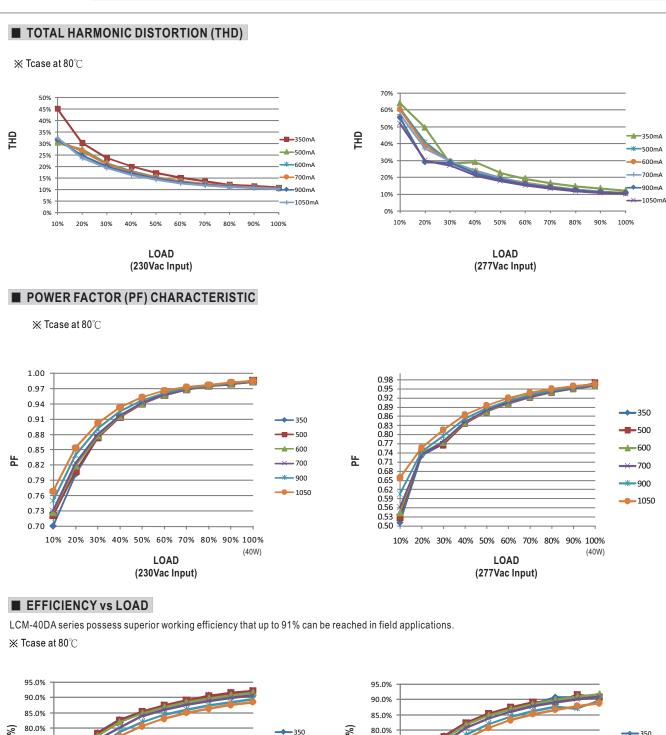
 $10\% \hspace{0.2cm} 20\% \hspace{0.2cm} 30\% \hspace{0.2cm} 40\% \hspace{0.2cm} 50\% \hspace{0.2cm} 60\% \hspace{0.2cm} 70\% \hspace{0.2cm} 80\% \hspace{0.2cm} 90\% \hspace{0.2cm} 100\%$

LOAD

(230Vac Input)

40W Multiple-Stage Constant Current Mode LED Driver

LCM-40DA series



EFFICIENCY (%)

75.0%

70.0%

65.0%

60.0%

55.0%

50.0%

45.0%

- 350

500

600

700

- 900

-1050

10% 20% 30% 40% 50% 60% 70% 80% 90% 100%

LOAD

(277Vac Input)

350

500 -

700

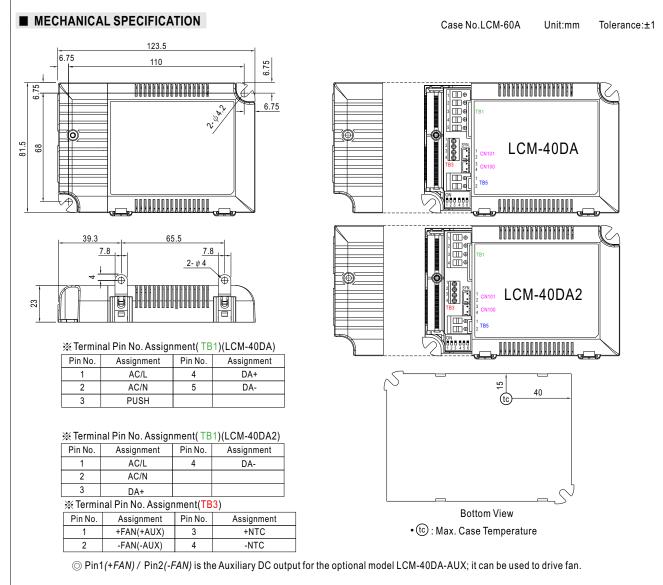
900

-1050

600



LCM-40DA series



 ※ Terminal Pin No. Assignment(TB5)

 Pin No.
 Assignment

1 +V 2 -V

% SYN. Connector(CN101/CN100):JST B2B-XH or equivalent

Pin No.	Assignment	Mating Housing	Terminal
1,3	+	JST XHP	JST SXH-001T-P0.6
2,4	-	or equivalent	or equivalent

Installation Manual

Please refer to : http://www.meanwell.com/manual.html



EL

LCM-40KN series



MW Search: https://www.meanwell.com/serviceGTIN.aspx



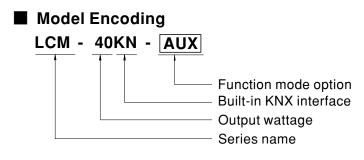


GTIN CODE

- Support emergency lighting(EL)
- Integrated constant light output
- Integrated KNX push button interface
- Synchronization up to 10units
- · Functions: Manual dim, operation hours, power consumption feedback, log/linear curve selection...etc
- 3 years warranty

Description

LCM-40KN series is a 40W AC/DC constant current mode output LED driver featuring the multiple levels selectable by dip switch and the KNX interface to avoid using the complicated KNX-DALI gateway. LCM-40KN operates from 180~295VAC and offers different current levels ranging between 350mA and 1050mA. Thanks to the high efficiency up to 90%, with the fanless design, the entire series is able to operate for -30° C \rightarrow +90 $^{\circ}$ C case temperature under free air convection. In addition, LCM-40KN is equipped with push dimming and synchronization so as to provide the optimal design flexibility for LED lighting system.



Туре	Function	Note
Blank	KNX and push dimming ,with standby power consumption <0.5W	In Stock
AUX	KNX and push dimming, with standby power consumption <1.2W and Auxiliary DC output	By request



SPECIFICATION

SPECIFIC												
MODEL		LCM-40KN-										
	CURRENT LEVEL	Current level se	lectable via DIP swit	ch, please refer to"DIP	SWITCH TABLE" section							
		350mA	500mA	600mA	700mA(default)	900mA	1050mA					
	RATED POWER	42W										
ουτρυτ	DC VOLTAGE RANGE	2 ~ 100V	2~80V	2~67V	2 ~ 57V	2 ~ 45V	2~40V					
	OPEN CIRCUIT VOLTAGE (max.)	110V			65V							
	CURRENT RIPPLE Note.5	5.0% max. @rat	.0% max. @rated current 5%									
	CURRENT TOLERANCE	±5%										
	AUXILIARY DC OUTPUT	Nominal 12V(de	eviation 11.4~12.6V)	@50mA for AUX-Type	only							
	SETUP TIME Note.3	500ms / 230VAC	ns / 230VAC									
		180 ~ 295VAC	220 ~ 392VDC									
	VOLTAGE RANGE Note.2	(Please refer to	"STATIC CHARACT	ERISTIC" section)								
	FREQUENCY RANGE	47 ~ 63Hz										
	POWER FACTOR (Typ.)		VAC, PF≧0.95/27 "POWER FACTOR	7VAC@full load (PF) CHARACTERIS	TIC" section)							
	TOTAL HARMONIC DISTORTION	THD< 20%(@lo (Please refer to		IC DISTORTION(THD)" section)							
INPUT	EFFICIENCY (Typ.) Note.4	90%										
	AC CURRENT (Typ.)	0.23A/230VAC										
	INRUSH CURRENT (Typ.)	COLD START 20	0A(twidth=310µs mea	sured at 50% Ipeak) at 2	30VAC; Per NEMA 410							
	MAX. No. of PSUs on 16A CIRCUIT BREAKER	21 units (circuit	breaker of type B) /	35 units (circuit break	er of type C) at 230VAC							
	LEAKAGE CURRENT	<0.5mA/240VA	AC									
	STANDBY POWER CONSUMPTION Note.6	<0.5W for Blank	-Type, <1.2W for AL	ЈХ-Туре								
	SHORT CIRCUIT	Constant curren	It limiting, recovers a	automatically after fault	condition is removed							
		110 ~ 130V		,								
PROTECTION	OVER VOLTAGE		oltage, re-power on t	to recover								
	OVER TEMPERATURE		Shutdown o/p voltage, re-power on to recover									
		Please refer to "DIMMING OPERATION" section										
FUNCTION	SYNCHRONIZATION	Please refer to "SYNCHRONIZATION OPERATION" section										
	TEMP. COMPENSATION	By external NTC, please refer to "TEMPERATURE COMPENSATION OPERATION" section										
	WORKING TEMP.	,	<u></u>		EMPERATURE [®] section)							
	MAX. CASE TEMP.	Tcase=+90°C										
	WORKING HUMIDITY	20 ~ 90% RH non-condensing										
ENVIRONMENT	STORAGE TEMP., HUMIDITY	-40 ~ +80°C, 10	8									
	TEMP. COEFFICIENT	±0.03%/°C (0~										
		- (- /	d fan COmin aanh ala								
	VIBRATION SAFETY STANDARDS	ENEC BS EN/EI approved, GB19	N61347-1, BS EN/El 9510.14 and GB1951	10.1(by request) ; Acco	EN62384 independent, BIS ording to BS EN/EN50172,	BS EN/EN 60598-						
			BS EN/EN61347-2-13 appendix J suitable for emergency installations(EL)(AC Input: 200-240Vac)									
SAFETY &	KNX STANDARDS WITHSTAND VOLTAGE	Certified protoco										
EMC				°C / 700/ DU								
Lino	EMC EMISSION Note.7				s C(@load≧40%) ; BS EN	/EN61000-3-3; GB	/T 17743, GB17625.1					
	EMC IMMUNITY		S EN/EN61000-4-2,	3,4,5,6,8,11, BS EN/EN	l61547, light industry level(surge immunity Lir	e-Line 2KV),					
	MTBF	1764.6K hrs min	n. Telcordia SR-33	32 (Bellcore); 190.4K	hrs min. MIL-HDBK-21	7F (25°C)						
OTHERS	DIMENSION	123.5*81.5*23m	ım (L*W*H)									
	PACKING	0.24Kg ; 54pcs/15Kg/1.12CUFT										
NOTE	 All parameters NOT specially mentioned are measured at 230VAC input, rated current and 25℃ of ambient temperature. De-rating may be needed under low input voltages. Please refer to "STATIC CHARACTERISTIC" sections for details. Length of set up time is measured at first cold start. Turning ON/OFF the driver may lead to increase of the set up time. Efficiency is measured at 500mA/80V output set by DIP switch. Current ripple is measured 50%~100% of maximum voltage under rated power delivery. Standby power consumption is measured at 180~230VAC. The driver is considered as a component that will be operated in combination with final equipment. Since EMC performance will be affected by the complete installation, the final equipment manufacturers must re-qualify EMC Directive on the complete installation again. (as available on https://www.meanwell.com//Upload/PDF/EMI_statement_en.pdf) The ambient temperature derating of 3.5℃/1000m with fanless models and of 5℃/1000m with fan models for operating altitude higher than 2000m(650) To fulfill requirements of the latest ErP regulation for lighting fixtures, this LED power supply can only be used behind a switch without permanently connected to the mains. 											
	 ※ Product Liability Disclaimer 	: For detailed inf	formation, please re	efer to https://www.me	anwell.com/serviceDisclai		ne:LCM-40KN-SPEC 2025-					



LCM-40KN series

BLOCK DIAGRAM PFC fosc : 60KHz PWM fosc : 80KHz ○ +12Vaux RECTIFIERS (optional) EMI FILTER RECTIFIERS POWER 3 PFC • +V I/P O & & SWITCHING CIRCUIT RECTIFIERS FILTER CURRENT MCU CO KNX+ LIMIT ١ 0.L.P. DETECTION PFC PWM CIRCUIT CONTROL CONTROL 0.T.P. 0.V.P.

DIP SWITCH TABLE

LCM-40KN is a multiple-stage constant current driver, selection of output current through DIP switch is exhibited below.

DIP S.W.	1	2	3	4	5	6	Max. LED voltage
350mA							100V
500mA	ON						80V
600mA	ON	ON					67V
700mA(factory default)	ON	ON	ON			ON	57V
900mA	ON	ON	ON	ON		ON	45V
1050mA	ON	ON	ON	ON	ON	ON	40V

More current options through DIP switch are exhibited below.

lo DIP S.W.	1	2	3	4	5	6	Max. LED voltage
450mA		ON					78V
550mA				ON			73V
650mA	ON				ON		62V
750mA	ON	ON			ON	ON	53V
800mA	ON	ON		ON		ON	50V
850mA	ON	ON	ON		ON	ON	47V
950mA	ON	ON		ON	ON	ON	42V

Note: The max. LED voltage connected at the output should be always less than the table above.



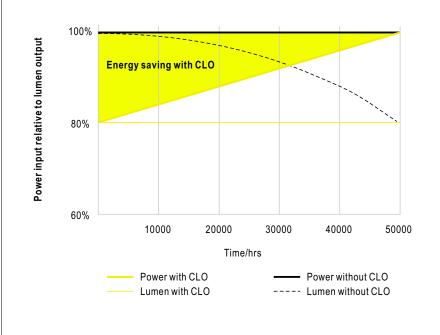
■ DIMMING OPERATION

℁ KNX interface

- Apply KNX Bus cable between KNX+ and KNX-
- The application program(database) can be downloaded via Online Catalogs from ETS or via http://www.meanwell.com/productCatalog.aspx

Parametrization options	Description				
Switch functions	 Turn on brightness Dimming speed for turn on/off Switch telegram and status Switch on/off delay 				
Dimming	 Dimming speed for 0~100% Allow switch on via relative dimming Push dimming with AC inut port Block object for push dimming 				
Brightness value	 Dimming speed for transition brightness values Permit set switch on and off brightness via value Brightness value and status 				
Faultmessage	Lamp fault AC/DC input monitor fault messages				
Other functions	 Reaction on KNX voltage failure/recovery Power-On level Dimming curve select(linear/log) Synchronous dimming output Block function(Block1&Block2) Staircase lighting function(multi-stage switch-off) 				
General function	Cyclic monitoring telegram(In operation)				
8 Scenes	Recall and save via KNX with 8-bit telegram				
Operating hours & CLO	 Operating hours counter Constant light out(5 scheduled divisions) 				
Power consumption feedback	Power consumption report				

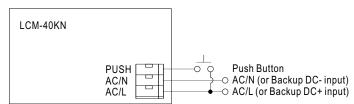
※ CONSTANT LIGHT OUTPUT





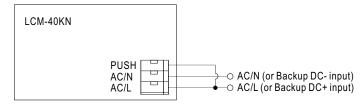


O PUSH dimming



- KNX bus need to be connected when using PUSH Dimming
- The detailed function of PUSH dimming, please refer to the database.
- The maximum length of the cable between the push button and driver is 20 meters.
- The mechanical push button can be connected only between the PUSH terminal, as displayed in the diagram, and AC/L (in brown or black); it will lead to short circuit if it is connected to AC/N.
- In case the PUSH dimming is set locally, up to 10 drivers can perform the PUSH dimming at the same time when utilizing one common push button.
- In case the PUSH dimming is set independently via ETS, the number of drivers is done through group address and determined by the ETS project designer.

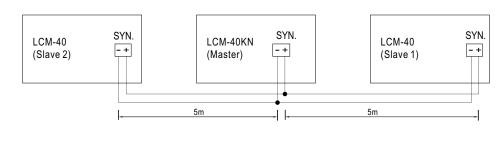
\odot AC/DC input monitor



- · KNX bus need to be connected when using AC/DC input monitor
- The detailed function of AC/DC input monitor(emergency lighting), please refer to the database and instruction manual.

SYNCHRONIZATION OPERATION

- · Synchronization up to 10 drivers (1 master + 9 slaves)
- Dimming operating range : 6%~100%
- Sync cable length : < 5m
- Sync cable type : Flat cable
- Sync cable cross section area : 22 24 AWG (0.2~0.3mm²)

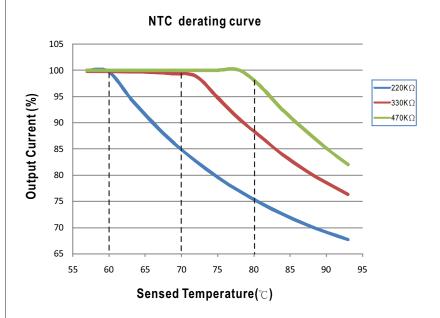


NOTE: Min. Dimming operating range depends on database setting.



■ TEMPERATURE COMPENSATION OPERATION

LCM-40KN have the built-in temperature compensation function; by connecting a temperature sensor (NTC resistor) between the +*NTC*/-*NTC* terminal of LCM-40KN and the detecting point on the lighting system or the surrounding environment, output current of LCM-40KN could be correspondingly changed, based on the sensed temperature, to ensure the long life of LED.



© LCM-40KN can still be operated normally when the NTC resistor is not connected and the value of output current will be the current level selected through the DIP switch.

◎ NTC reference:

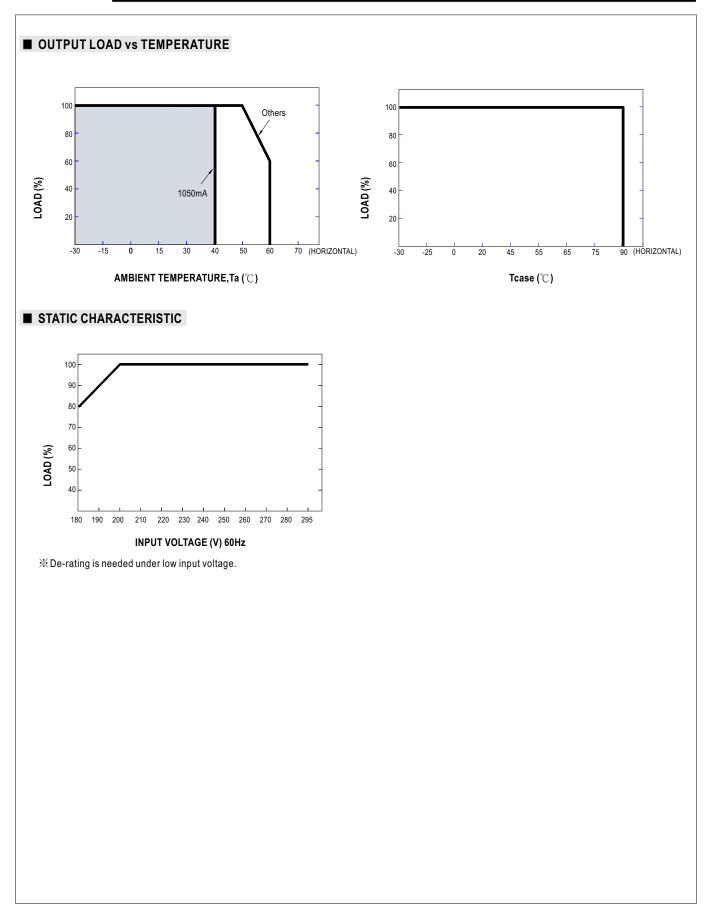
NTC resistance	Output Current
220K	< 60 $^{\circ}$ C, 100% of the rated current (corresponds to the setting current level) > 60 $^{\circ}$ C, output current begins to reduce, please refer to the curve for details.
330K	< 70 $^{\circ}$ C, 100% of the rated current (corresponds to the setting current level) > 70 $^{\circ}$ C, output current begins to reduce, please refer to the curve for details.
470K	< 80° C, 100% of the rated current (corresponds to the setting current level) > 80° C, output current begins to reduce, please refer to the curve for details.

Notes: 1. MEAN WELL does not offer the NTC resistor and all the data above are measured by using THINKING TTC03 series. 2. If other brands of NTC resistor is applied, please check the temperature curve first.

© KNX control, dimming and synchronization function of the driver will be invalid when the "temperature compensation" function is in use.



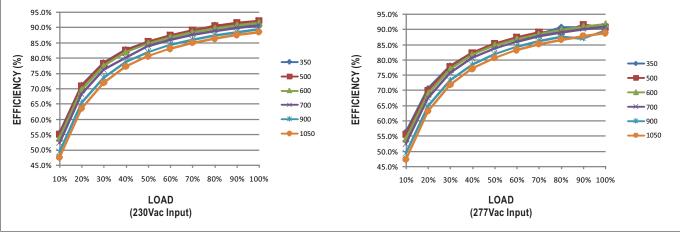
LCM-40KN series





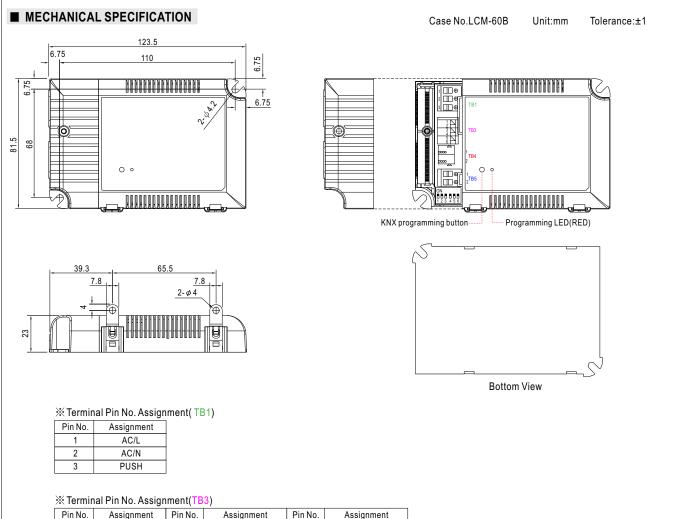
LCM-40KN series

TOTAL HARMONIC DISTORTION (THD) ※ Tcase at 80℃ 70% 50% 45% 60% 40% 50% 35% Ħ 臣 -350mA -350mA 30% 40% 500mA 25% 30% 600mA 600m/ 20% 700mA 20% -700mA 15% 900mA 900mA 10% 10% -1050mA 5% 1050mA 0% 0% 10% 20% 100% 10% 20% 30% 40% 50% 60% 70% 80% 90% 100% 30% 40% 50% 60% 70% 80% 90% LOAD LOAD (230Vac Input) (277Vac Input) POWER FACTOR (PF) CHARACTERISTIC X Tcase at 80°C 1.00 0.98 0.97 0.95 0.92 0.94 0.89 0.86 0.91 - 350 0.83 0.80 0.77 500 0.88 500 0.85 600 600 0.74 0.71 Н н 0.82 700 ×700 0.68 0.65 900 0.79 * 900 0.62 0.59 0.56 - 1050 0.76 0.73 0.53 0.50 0.70 10% 20% 30% 40% 50% 60% 70% 80% 90% 100% 10% 20% 30% 40% 50% 60% 70% 80% 90% 100% (40W) (40W) LOAD LOAD (230Vac Input) (277Vac Input) EFFICIENCY vs LOAD LCM-40KN series possess superior working efficiency that up to 90% can be reached in field applications. X Tcase at 80°C





LCM-40KN series



Pin No.	Assignment	Pin No.	Assignment	Pin No.	Assignment
1	+FAN(optional)	3	+NTC	5	+SYN
2	-FAN(optional)	4	-NTC	6	-SYN

© Pin1(+FAN) / Pin2(-FAN) is the Auxiliary DC output for the optional model LCM-40KN-AUX; it can be used to drive fan.

※ Terminal Pin No. Assignment(TB4)

Pin No.	Assignment
1	KNX-
2	KNX+

※ Terminal Pin No. Assignment(TB5)

	•
Pin No.	Assignment
1	+V
2	-V

Installation Manual

Please refer to : http://www.meanwell.com/manual.html



LCM-40TW series









Features

- DALI device type 6(DT6) and device type 8(DT8) available
- Constant power mode output with 2 channels
- $\boldsymbol{\cdot}$ Plastic housing with class II and PFC design
- Flick free, complying with IEEE1789
- Standby power consumption <0.5W
- Minimum dimming level 0.2%
- · Cooling by free air convection
- · Emergency lighting (EL) available
- 5 years warranty

Applications

- Tunable White Lighting
- Human Centric Lighting(HCL)
- Downlight
- Panel Light
- Decorative Light
- Commercial Lighting
- DALI digital Lighting

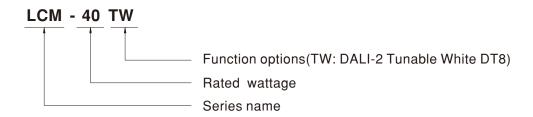
GTIN CODE

MW Search: <u>https://www.meanwell.com/serviceGTIN.aspx</u>

Description

LCM-40TW Series is a 40W constant power output LED driver with two channels output for Tunable white function. It can operate from 180~277V AC and output current ranging between 500 mA to 1050 mA selectable by dip switch. Thanks to high efficiency up to 87%, it is able to operate for -30° C ~85°C case temperature under free air convection. LCM-40TW is designed based on DALI-2 DT8 Tunable white and is also usable as two independent output channels with DT6 function. LCM-40TW can be adjusted for light intensity and color temperature by a push button as a simple way dimming, so it provides the design flexibility for LED Lighting application.

Model Encoding





LCM-40TW series

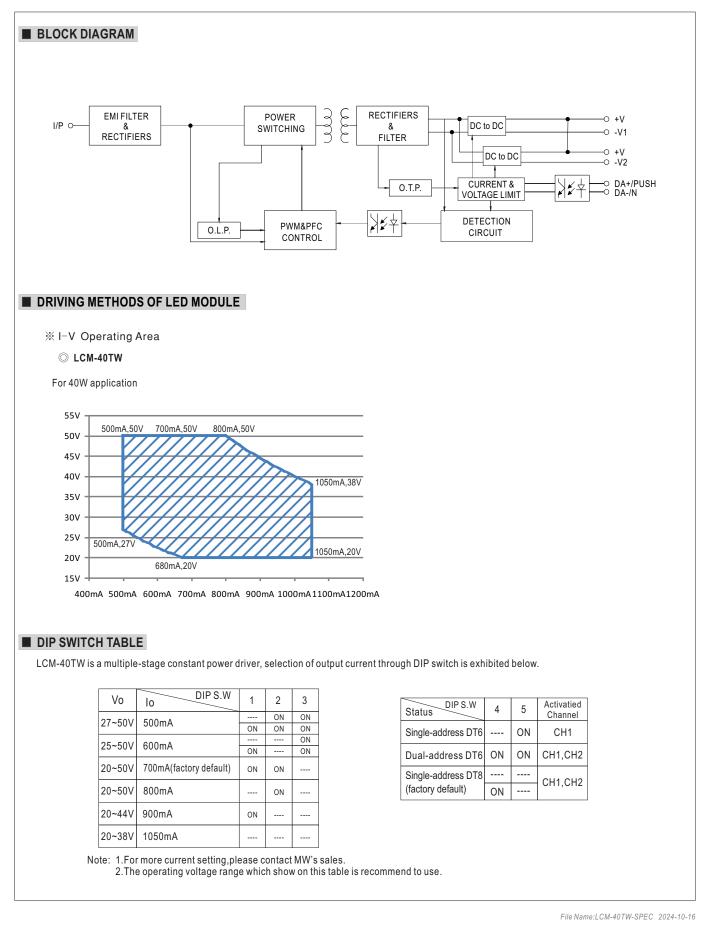
SPECIFICATION

MODEL		LCM-40TW					
	OUTPUT CHANNEL	CH1	CH2				
	DC VOLTAGE RANGE	20~50V	20~50V				
	NO LOAD VOLTAGE	53V	53V				
	DEFAULT CURRENT	700mA	700mA				
OUTPUT	CURRENT ADJ. RANGE (BY DIP SWITCH)	500~1050mA	500~1050mA				
	RATED POWER	40W Max. total					
	CURRENT RIPPLE Note5	<2%					
DIMMING RANGE 0~100%							
	START UP TIME Note9	500ms/230VAC					
	VOLTAGE RANGE	180~277VAC 260~390VDC					
	FREQUENCY RANGE	47 ~ 63Hz					
	POWER FACTOR	PF≥0.98/230VAC,PF≥0.95/277VAC@full load (Please refer to "POWER FACTOR (PF) CHARACTERISTIC" section)					
NPUT	TOTAL HARMONIC DISTORTION	THD< 10% (@load 50%/230VAC; @load 75%/277V (Please refer to "TOTAL HARMONIC DISTORTION					
NEOL	EFFICIENCY(Typ.) Note4	87%					
	AC CURRENT	0.23A/230VAC					
	INRUSH CURRENT	COLD START 20A(twidth=310µs measured at 50%	Ipeak) at 230VAC; Per NEMA 410				
	LEAKAGE CURRENT	<0.75mA/277VAC					
	STANDBY POWER CONSUMPTION Note6	standby power consumption<0.5W (Dimming off)					
	OVERLOAD	105~135% rated output power					
PROTECTION		Protection type: Hiccup mode, recovers automatica	•				
	SHORT CIRCUIT	Constant current limiting, recovers automatically a					
	OVER TEMPERATURE		vn.Recovers automatically after fault condition is removed				
	WORKING TEMP.	Tcase=-30~85℃ (Please refer to " OUTPUT LOAD	vs TEMPERATURE" section)				
	MAX. CASE TEMP.	Tcase=85°C					
	WORKING HUMIDITY	20 ~ 90% RH non-condensing					
INVIRONMENT	STORAGE TEMP., HUMIDITY						
	TEMP. COEFFICIENT	±0.03%/°C (0~50°C)					
	VIBRATION	10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes					
	OPERATING ALTITUDE	2000 meters					
	SAFETY STANDARDS	ENEC BS EN/EN61347-1, BS EN/EN61347-2-13(EL) appendix J suitable for emergency installations(DC Input: 180- 260Vdc,AC Input: 200-240Vac); BS EN/EN62384 independent, GB19510.14, GB19510.1, EAC TP TC 004, BIS IS 15885(Part2/Sec13) approved					
	DALI STANDARDS	Comply with IEC62386-101, 102, 207(DT6),209(DT8),251					
	WITHSTAND VOLTAGE	I/P-0/P:3.75KVAC					
SAFETY&EMC		I/P-O/P:>100M Ohms / 500VDC / 25°C/ 70% RH					
	EMC EMISSION	Compliance to BS EN/EN55015, BS EN/EN61000-3-2 Class C(@load 50%) ; BS EN/EN61000-3-3;					
	EMC IMMUNITY	GB/T 17743, GB17625.1, EAC TP TC 020 Compliance to BS EN/EN61000-4-2,3,4,5,6,8,11, BS EN/EN61547, light industry level(surge immunity Line-Line 2KV EAC TP TC 020					
	MTBF		.4Khrs min. MIL-HDBK-217F (25℃)				
OTHERS	DIMENSION	123.5*81.5*23mm (L*W*H)					
	PACKING	0.24Kg; 54pcs/15Kg/1.12CUFT					
 NOTE 1. All parameters NOT specially mentioned are measured at 230VAC input, rated current and 25°C of ambient temperature. 2. De-rating may be needed under low input voltages. Please refer to "STATIC CHARACTERISTIC" sections for details. 3. Length of set up time is measured at first cold start. Turning ON/OFF the driver may lead to increase of the set up time. 4. Efficiency is measured at 800mA/50V output set by DIP switch. 5. Current ripple is measured 50%~100% of maximum voltage under rated power delivery. 6. Standby power consumption is measured at 180~230VAC. 7. The driver is considered as a component that will be operated in combination with final equipment. Since EMC performance will be affect complete installation, the final equipment manufacturers must re-qualify EMC Directive on the complete installation again. (as available on https://www.meanwell.com//Upload/PDF/EMI_statement_en.pdf) 8. The ambient temperature derating of 3.5°C/1000m with fanless models and of 5°C/1000m with fan models for operating altitude higher th 2000m(6500ft). 9. Based on IEC 62386-101/102 DALI power on timing and interruption regulations, the set up time needs to test with a DALI controller whi can support for DALI power on function, otherwise the start up time will be higher than 0.5 second. 10. For more information, please contact with MEAN WELL sales. ※ Product Liability Disclaimer : For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx 							



40W Constant Power Mode With Tunable White LED Driver

LCM-40TW series

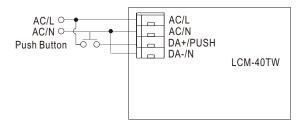


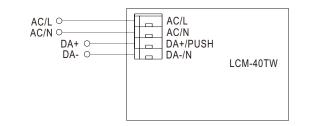


LCM-40TW series

DIMMING OPERATION

🔆 Output wiring diagram





℁PUSH dimming (primary side)

- The factory default dimming level is at 100%.
- If the push action lasts less than 0.05 sec., it will not lead to a change for the status of the driver.
- Up to 10 drivers can perform the PUSH dimming at the same time when utilizing one common push button.
 The maximum length of the cable from the push button to the last driver is 20 meters.

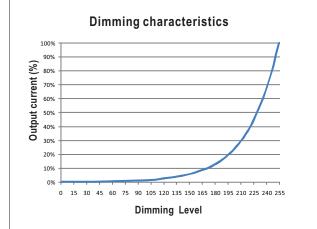
Action	Action duration
Short Push	0.1~1s
Double Click	Click twice in 1.5s
Long Push	1.5~10s

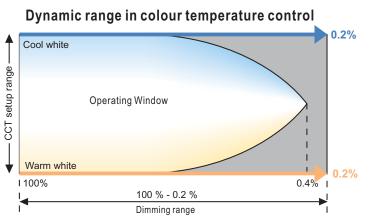
PUSH dimming functions table

Status	Output	Push button function
DT6 (Single Address)	CH1	Short Push : ON/OFF Double Click : go to maximum. Long Push: Dim up/down. - dim up stop at maximum; dim down stop at min dim (not dim off) - with next push, direction change (up/down) - dim up possible even if when unit is in standby mode (dim off mode)
DT6 (Dual Address)	CH1,CH2	Short Push: ON/OFF Double Click : go to maximum. Long Push : Dim up+CCT cooler/Dim down+CCT warmer - dim up stop at maximum; dim down stop at min dim (not dim off) - with next push, direction change (up/down) - dim up possible even if when unit is in standby mode (dim off mode)
DT8 (Single Address)	CH1(C.W.), CH2(W.W.)	Short Push : ON/OFF Double Click : Switch between Dim control or CCT control mode Long Push : Dim up/down or CCT control - dim up stop at maximum; dim down stop at min dim (not dim off) - with next push, direction change (up/down, warm/cold) - dim up possible even if when unit is in standby mode (dim off mode)



DIMMING CURVE



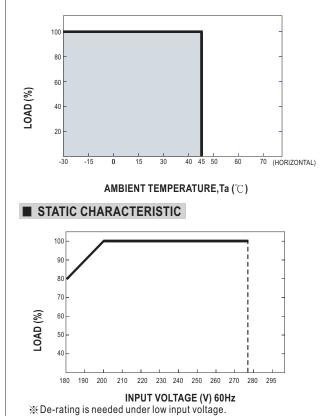


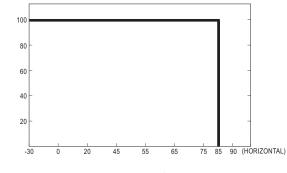
OUTPUT CONNECTIONS

Application	Output channels	Output connections schematic diagram
One channel output control(DT6)	Single address	CH1 CH2 +V +V -V1 -V2
Two channels output control(DT6)	Dual address	CH1 CH2 +V +V -V1 -V2 If If If If
Tunable white control(DT8)	Single address	CH1 CH2 +V +V -V1 -V2 ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓

LOAD (%)

OUTPUT LOAD vs TEMPERATURE





Tcase (° \mathbb{C})



LCM-40TW series

TOTAL HARMONIC DISTORTION (THD) ※ Tcase at 85℃ 16 10 14 12 臣 E 10 -800mA ←800mA 6 ***--**900mA -900mA 3 4 - 1050mA 1050mA 2 2 ٥ 0 10% 20% 30% 40% 50% 60% 70% 80% 90% 100% 10% 20% 30% 40% 50% 60% 70% 80% 90% 100% LOAD LOAD (230Vac Input) (277Vac Input) POWER FACTOR (PF) CHARACTERISTIC X Tcase at 85℃ 0.95 0.9 0.9 0.8 0.85 -500mA -500mA 0.8 0.7 Н Н 0.75 0.6 <u>→</u>800mA 0.7 -800mA 900mA * 900mA 0.65 0.5 ----- 1050mA 🔶 1050mA 0.6 0.4 0.55 0.5 0.3 10% 20% 30% 80% 90% 100% 10% 40% 100% 40% 50% 60% 70% 20% 30% 50% 60% 70% 80% 90% LOAD LOAD (230Vac Input) (277Vac Input) EFFICIENCY vs LOAD LCM-40TW series possess superior working efficiency that up to 87% can be reached in field applications. X Tcase at 85℃ 95 95 90 90 EFFICIENCY (%) EFFICIENCY (%) 85 85 80 80 ← 500mA 75 75 70 70 -800mA 65 65 -1050mA 60 60 55 55 50 50 10% 20% 30% 40% 50% 60% 70% 80% 90% 100% 10% 20% 30% 40% 50% 60% 70% 80% 90% 100%

LOAD

(230Vac Input)

File Name:LCM-40TW-SPEC 2024-10-16

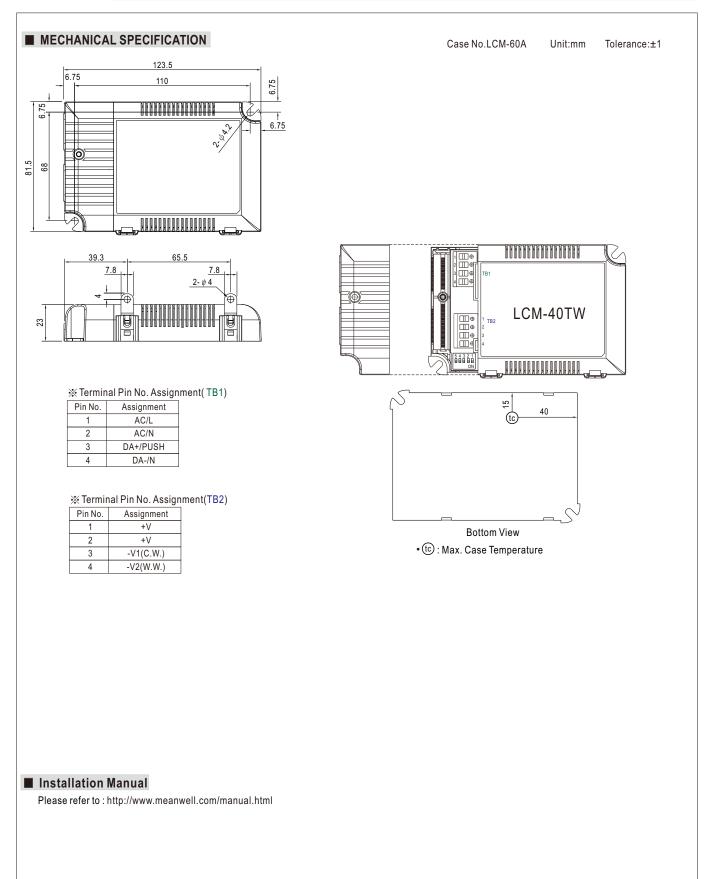
LOAD

(277Vac Input)



40W Constant Power Mode With Tunable White LED Driver

LCM-40TW series





35W Multiple-Stage Constant Current Mode LED Driver LCN-40U series







Features

- Constant Current mode output with multiple levels selectable by dip switch
- Plastic housing with class II design
- Built-in active PFC function
- Functions: 3 in 1 dimming (dim-to-off); Auxiliary DC output; synchronization up to 10 units
- 3 years warranty

Applications

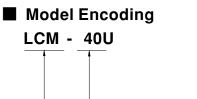
- · LED indoor lighting
- · LED office lighting
- · LED architectural lighting
- LED panel lighting

GTIN CODE

MW Search: https://www.meanwell.com/serviceGTIN.aspx

Description

LCM-40U series is a 35W LED AC/DC constant current mode output LED driver featuring the multiple levels selectable by dip switch. LCM-40U operates from $90 \sim 132$ VAC and offers different current levels ranging between 350mA and 1050mA. Thanks to the efficiency up to 87.5%, with the fanless design, the entire series is able to operate for $-30^{\circ}C \sim +90^{\circ}C$ case temperature under free air convection. LCM-40U is equipped with various functions, such as the dimming function and synchronization, so as to provide the optimal design flexibility for LED lighting system.



Output wattage
 Series name

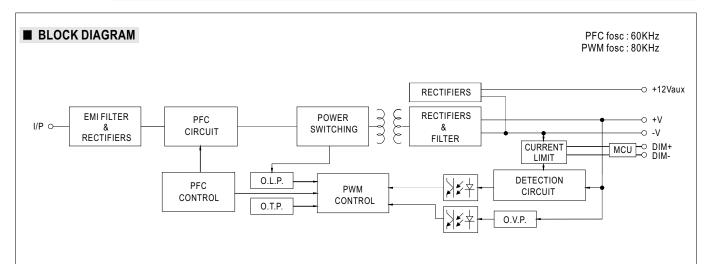


SPECIFICATION

SPECIFIC	ATION							
MODEL		LCM-40U						
	CURRENT LEVEL	Current level selectable via DIP switch, please refer to "DIP SWITCH TABLE" section						
		350mA	500mA	600mA	700mA(default)	900mA	1050mA	
	RATED POWER	35W						
ουτρυτ	DC VOLTAGE RANGE	2 ~ 100V	2~70V	2 ~ 59V	2~50V	2 ~ 39V	2~34V	
	OPEN CIRCUIT VOLTAGE (max.)	110V			65V			
	CURRENT RIPPLE Note.6	5.0% max. @rated	l current					
	CURRENT TOLERANCE	±5%						
	AUXILIARY DC OUTPUT	Nominal 12V(deviation 11.4~12.6V)@50mA						
	SETUP TIME Note.3	1000ms / 115VAC						
	VOLTAGE RANGE Note.2	90 ~ 132VAC 1	27 ~ 186VDC					
		(Please refer to "STATIC CHARACTERISTIC" section)						
	FREQUENCY RANGE	47 ~ 63Hz						
	POWER FACTOR (Typ.)	PF≧0.98/115VAC ((Please refer to "PO	€ full load WER FACTOR (PF)	CHARACTERISTI	C" section)			
INPUT	TOTAL HARMONIC DISTORTION	THD< 20%(@load≧ (Please refer to "TO	50%) TAL HARMONIC DIS	STORTION(THD)"	section)			
	EFFICIENCY (Typ.) Note.4	87.5%						
	AC CURRENT (Typ.)	0.43A/115VAC						
	INRUSH CURRENT (Typ.)	COLD START 15A(tw	idth=270µs measured	at 50% Ipeak) at 115	VAC; Per NEMA 410			
	MAX. No. of PSUs on 16A CIRCUIT BREAKER	22 units (circuit breaker of type B) / 38 units (circuit breaker of type C) at 115VAC						
LEAKAGE CURRENT <0.5mA / 120VAC								
	SHORT CIRCUIT	Constant current limiting, recovers automatically after fault condition is removed						
PROTECTION	OVER VOLTAGE	110 ~ 130V Shutdown o/p voltage, re-power on to recover						
	OVER TEMPERATURE	Shutdown o/p voltage,re-power on to recover						
	DIMMING	Please refer to "DIMMING OPERATION" section						
FUNCTION	SYNCHRONIZATION	Please refer to "SYNCHRONIZATION OPERATION" section						
	TEMP. COMPENSATION	By external NTC, please refer to "TEMPERATURE COMPENSATION OPERATION" section						
	WORKING TEMP.	Tcase=-30 ~ +90°C (Please refer to " OUTPUT LOAD vs TEMPERATURE" section)						
	MAX. CASE TEMP.	Tcase=+90°C						
	WORKING HUMIDITY	20 ~ 90% RH non-cc	ndensing					
ENVIRONMENT	STORAGE TEMP., HUMIDITY	-40 ~ +80°C , 10 ~ 95	5% RH					
	TEMP. COEFFICIENT	±0.03%/°C (0 ~ 50°C)						
	VIBRATION	10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes						
	SAFETY STANDARDS	UL8750 approved						
	DALI STANDARDS	Comply with IEC62386-101, 102, 207						
SAFETY &	WITHSTAND VOLTAGE	I/P-O/P:3.75KVAC						
EMC	ISOLATION RESISTANCE	I/P-O/P:>100M Ohm	s / 500VDC / 25°C / 70	0% RH				
	EMC EMISSION	Compliance to FCC	_					
	MTBF	2649.1K hrs min. Telcordia SR-332 (Bellcore) ; 273.7K hrs min. MIL-HDBK-217F (25°C)						
OTHERS	DIMENSION	123.5*81.5*23mm (L	.*W*H)			, , , , ,		
	PACKING	0.28Kg ; 54pcs/16Kg	,					
NOTE	 All parameters NOT special De-rating may be needed u Length of set up time is me Efficiency is measured at 50 The driver is considered as complete installation, the fin (as available on https://www It is measured 50%~100% The ambient temperature d Xenduct Liability Disclaimer 	nder low input voltag asured at first cold st 00mA/70V output set a component that wi lal equipment manufa ,.meanwell.com//Uplo of maximum voltage erating of 3.5°C/1000	es. Please refer to "S art. Turning ON/OFF by DIP switch. Il be operated in com acturers must re-qual ad/PDF/EMI_statem under rated power do m with fanless mode	STATIC CHARACT the driver may lea bination with final ify EMC Directive ent_en.pdf) elivery. els and of 5°C/1000	"ERISTIC" sections for ad to increase of the se equipment. Since EMC on the complete installa Om with fan models for	details. et up time. C performance will ation again. operating altitude	-	



35W Multiple-Stage Constant Current Mode LED Driver LCM-40U series

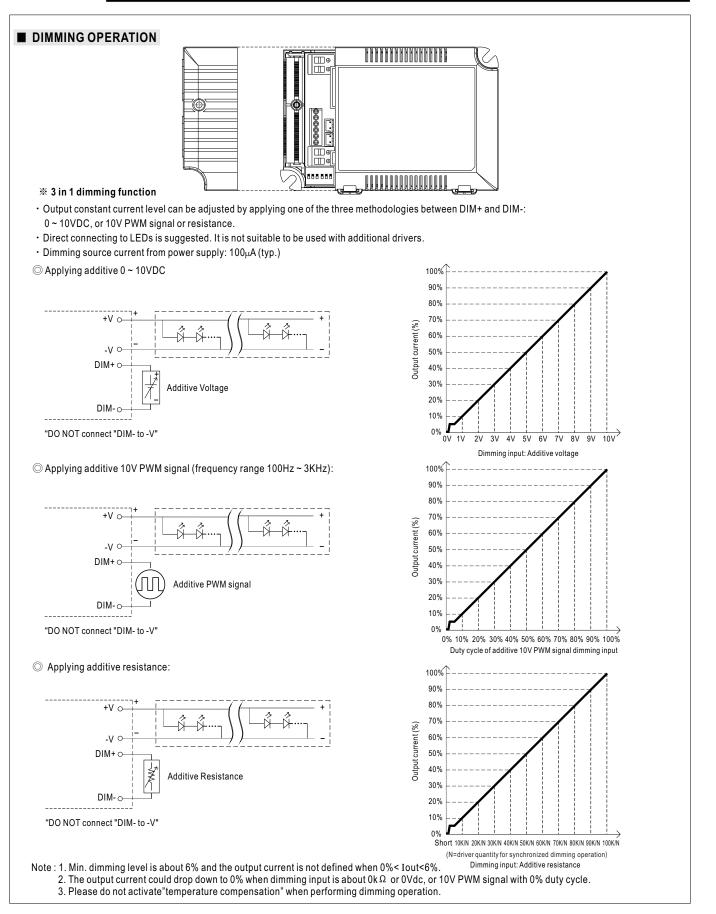


DIP SWITCH TABLE

LCM-40U is a multiple-stage constant current driver, selection of output current through DIP switch is exhibited below.

DIP S.W.	1	2	3	4	5	6
350mA						
500mA	ON					
600mA	ON	ON				
700mA(factory default)	ON	ON	ON			ON
900mA	ON	ON	ON	ON		ON
1050mA	ON	ON	ON	ON	ON	ON

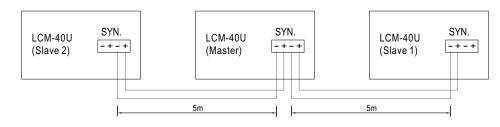






SYNCHRONIZATION OPERATION

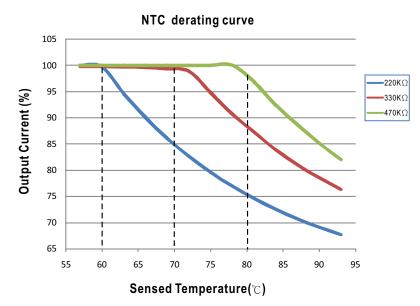
- Synchronization up to 10 drivers (1 master + 9 slaves)
- Dimming operating range : 10%~100%
- Sync cable length : < 5m
- Sync cable type : Flat cable
- Sync cable cross section area : 22 24 AWG (0.2~0.3mm²)



NOTE : 1. Please make sure all units are set to 100% dimming setting (factory default) before synchronizing. 2. Min. Dimming operating range depends on dimmer setting.

■ TEMPERATURE COMPENSATION OPERATION

LCM-40U have the built-in temperature compensation function; by connecting a temperature sensor (NTC resistor) between the +*NTC*/-*NTC* terminal of LCM-40U and the detecting point on the lighting system or the surrounding environment, output current of LCM-40U could be correspondingly changed, based on the sensed temperature, to ensure the long life of LED.



© LCM-40U can still be operated normally when the NTC resistor is not connected and the value of output current will be the current level selected through the DIP switch.

◎ NTC reference:

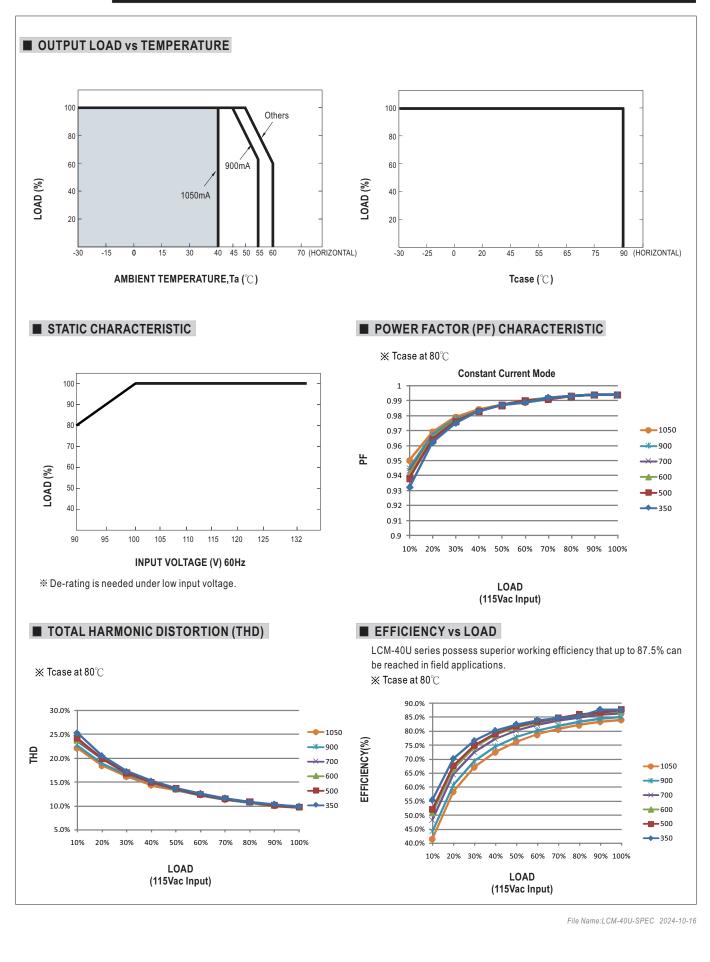
NTC resistance	Output Current
220K	< 60 $^{\circ}$ C, 100% of the rated current (corresponds to the setting current level) > 60 $^{\circ}$ C, output current begins to reduce, please refer to the curve for details.
330K	< 70 $^{\circ}$ C, 100% of the rated current (corresponds to the setting current level) > 70 $^{\circ}$ C, output current begins to reduce, please refer to the curve for details.
470K	< 80°C, 100% of the rated current (corresponds to the setting current level) > 80°C, output current begins to reduce, please refer to the curve for details.

Notes: 1. MEAN WELL does not offer the NTC resistor and all the data above are measured by using THINKING TTC03 series. 2. If other brands of NTC resistor is applied, please check the temperature curve first.

O Dimming and synchronization function of the driver will be invalid when the "temperature compensation" function is in use.



35W Multiple-Stage Constant Current Mode LED Driver LCM-40U series

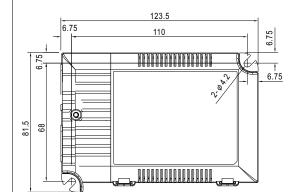


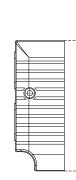


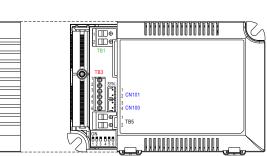
35W Multiple-Stage Constant Current Mode LED Driver LCM-40U series

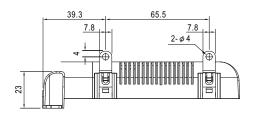
■ MECHANICAL SPECIFICATION

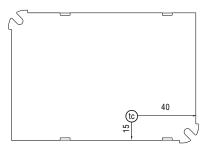












Bottom View
• (10) : Max. Case Temperature

% Terminal Pin No. Assignment(TB1)

Pin No.	Assignment
1	AC/L
2	AC/N

※ Terminal Pin No. Assignment(TB3)

Pin No.	Assignment	Pin No.	Assignment	Pin No.	Assignment
1	+FAN	3	+NTC	5	DIM+
2	-FAN	4	-NTC	6	DIM-

© Pin1(+FAN) / Pin2(-FAN) is the Auxiliary DC output; it can be used to drive fan.

※ Terminal Pin No. Assignment(TB5)
-----------------------------------	---

Pin No.	Assignment
1	+V
2	V

% SYN. Connector(CN101/CN100):JST B2B-XH or equivalent

Pin No.	Assignment	Mating Housing	Terminal			
1,3	+	JST XHP	JST SXH-001T-P0.6			
2,4	-	or equivalent	or equivalent			



35W Multiple-Stage Constant Current Mode LED Driver LCM-40UDA series







Applications

GTIN CODE

LED indoor lighting

· LED office lighting

LED panel lighting

· LED architectural lighting

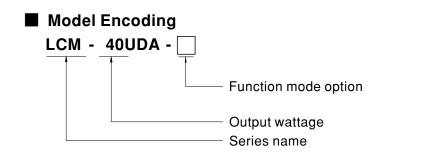
MW Search: https://www.meanwell.com/serviceGTIN.aspx

Features

- Constant Current mode output with multiple levels selectable by dip switch
- Plastic housing with class II design
- Built-in active PFC function
- Functions: DALI interface(logarithm or linear dimming curve selectable), push dimming, synchronization up to 10units
- 3 years warranty

Description

LCM-40UDA series is a 35W LED AC/DC constant current mode output LED driver featuring the multiple levels selectable by dip switch and the DALI interface with the compliance to IEC62386-207. LCM-40UDA operates from $90 \sim 132$ VAC and offers different current levels ranging between 350mA and 1050mA. Thanks to the efficiency up to 87.5%, with the fanless design, the entire series is able to operate for -30° C $\sim +90^{\circ}$ C case temperature under free air convection. In addition, LCM-40UDA is equipped with push dimming and synchronization so as to provide the optimal design flexibility for LED lighting system.



Туре	Function	Note
Blank	DALI and push dimming	In Stock
AUX	DALI and push dimming and Auxiliary DC output	By request

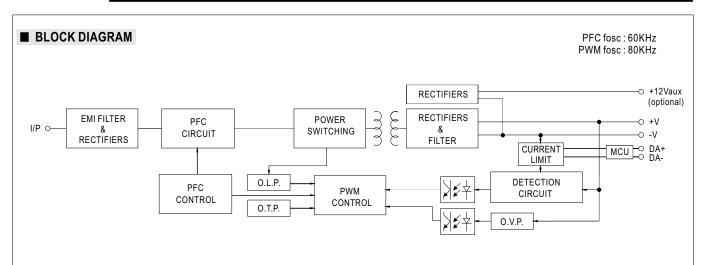


SPECIFICATION

MODEL		LCM-40UDA-							
		Current level selectable via DIP switch, please refer to "DIP SWITCH TABLE" section							
	CURRENT LEVEL	350mA 500mA 600mA 700mA(default) 900mA 1050mA							
	RATED POWER	35W	000111/1	00011/1	/ conin (deridant)	000111/	100011/1		
	DC VOLTAGE RANGE	2~100V	2~70V	2~59V	2 ~ 50V	2~39V	2~34V		
OUTPUT	OPEN CIRCUIT VOLTAGE (max.)	110V	2 100	2 000	65V	2 000	2 047		
	CURRENT RIPPLE Note.6		ated current		001				
	CURRENT TOLERANCE	5.0% max. @rated current							
	AUXILIARY DC OUTPUT		viation 11 4~12 6V)@	050mA for ALIX-Type	only				
	SETUP TIME Note.3	Nominal 12V(deviation 11.4~12.6V)@50mA for AUX-Type only 1000ms / 115VAC							
		90 ~ 132VAC	-						
	VOLTAGE RANGE Note.2	e.2 90 ~ 132VAC 127 ~ 186VDC (Please refer to "STATIC CHARACTERISTIC" section)							
	FREQUENCY RANGE	47~63Hz							
			C @fullload						
INPUT	POWER FACTOR (Typ.)	PF≧0.98/115V/ (Please refer to	POWER FACTOR	(PF) CHARACTERIS	TIC" section)				
		THD<20%(@loa	vd>75%)						
	TOTAL HARMONIC DISTORTION			CDISTORTION(THD)" section)				
	EFFICIENCY (Typ.) Note.4	87.5%							
	AC CURRENT (Typ.)	0.43A/115VAC							
	INRUSH CURRENT (Typ.)	COLD START 15	A(twidth=270µs meas	ured at 50% lpeak) at 1	15VAC; Per NEMA 410				
	MAX. No. of PSUs on 16A CIRCUIT BREAKER	COLD START 15A(twidth=270µs measured at 50% lpeak) at 115VAC; Per NEMA 410 22 units (circuit breaker of type B) / 38 units (circuit breaker of type C) at 115VAC							
		<0.5mA / 120VA							
	SHORT CIRCUIT								
		Constant current limiting, recovers automatically after fault condition is removed 110 ~ 130V							
PROTECTION	OVER VOLTAGE	Shutdown o/p voltage, re-power on to recover							
	OVER TEMPERATURE	Shutdown o/p voltage,re-power on to recover							
	DIMMING	Please refer to "DIMMING OPERATION" section							
FUNCTION	SYNCHRONIZATION	Please refer to "SYNCHRONIZATION OPERATION" section							
	TEMP. COMPENSATION	By external NTC	, please refer to "TI	EMPERATURE COM	PENSATION OPERATIO	N"section			
	WORKING TEMP.	Tcase=-30 ~ +90℃ (Please refer to " OUTPUT LOAD vs TEMPERATURE" section)							
	MAX. CASE TEMP.	Tcase=+90°C							
ENVIRONMENT	WORKING HUMIDITY	20 ~ 90% RH no							
	STORAGE TEMP., HUMIDITY	′ -40 ~ +80℃, 10 ~ 95% RH							
	TEMP. COEFFICIENT	±0.03%/°C (0~50°C)							
	VIBRATION	10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes							
	SAFETY STANDARDS	UL8750 approve	d						
	DALI STANDARDS	Comply with IEC62386-101, 102, 207							
SAFETY & EMC	WITHSTAND VOLTAGE	I/P-O/P:3.75KVAC							
	ISOLATION RESISTANCE	I/P-O/P:>100M Ohms / 500VDC / 25°C / 70% RH							
	EMC EMISSION	Compliance to FCC part 15 Subpart B							
	MTBF	2285.3K hrs min	Telcordia SR-33	2 (Bellcore) ;222.9K h	rs min. MIL-HDBK-217	F (25℃)			
OTHERS	DIMENSION	123.5*81.5*23mi	, ,						
	PACKING	0.28Kg;54pcs/16Kg/1.12CUFT							
NOTE	 All parameters NOT special De-rating may be needed u Length of set up time is me Efficiency is measured at 50 The driver is considered as complete installation, the fin (as available on https://www It is measured 50%~100% d The ambient temperature d 	nder low input vo asured at first col 00mA/70V output a component tha ial equipment mai meanwell.com// of maximum volta erating of 3.5°C/1	Itages. Please refer d start. Turning ON/ set by DIP switch. t will be operated in hufacturers must re Jpload/PDF/EMI_st ge under rated pow 000m with fanless r	to "STATIC CHARA (OFF the driver may or combination with fin -qualify EMC Directiv atement_en.pdf) ver delivery. models and of 5°C/10	CTERISTIC" sections for lead to increase of the se al equipment. Since EMC e on the complete installa	details. et up time. C performance will ation again. operating altitude	·		



35W Multiple-Stage Constant Current Mode LED Driver LCM-40UDA series



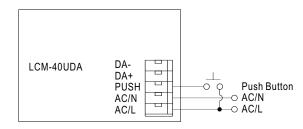
DIP SWITCH TABLE

LCM-40UDA is a multiple-stage constant current driver, selection of output current through DIP switch is exhibited below.

DIP S.W.	1	2	3	4	5	6
350mA						
500mA	ON					
600mA	ON	ON				
700mA(factory default)	ON	ON	ON			ON
900mA	ON	ON	ON	ON		ON
1050mA	ON	ON	ON	ON	ON	ON



■ DIMMING OPERATION



℁PUSH dimming(primary side)

Action	Action duration	Function
Short push	0.1~1 sec.	Turn ON-OFF the driver
Long push	1.5~10 sec.	Every Long Push changes the dimming direction, dimming up or down
Reset	>11 sec.	Set up the dimming level to 100%

• The factory default dimming level is at 100%.

• If the push action lasts less than 0.05 sec., it will not lead to a change for the status of the driver.

• Up to 10 drivers can perform the PUSH dimming at the same time when utilizing one common push button.

• The maximum length of the cable from the push button to the last driver is 20 meters.

• The additive push button can be connected only between the PUSH terminal, as displayed in the diagram, and AC/L (in brown or black); it will lead to short circuit if it is connected to AC/N.

*DALI interface(primary side)

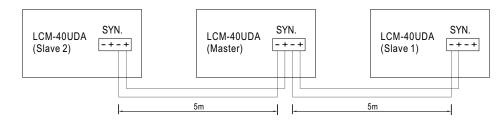
Apply DALI signal between DA+ and DA-

- DALI protocol comprises 16 groups and 64 addresses.
- · First step is fixed at 6% of output.



SYNCHRONIZATION OPERATION

- Synchronization up to 10 drivers (1 master + 9 slaves)
- Dimming operating range : 10%~100%
- Sync cable length : < 5m
- Sync cable type : Flat cable
- Sync cable cross section area : 22 24 AWG (0.2~0.3mm²)



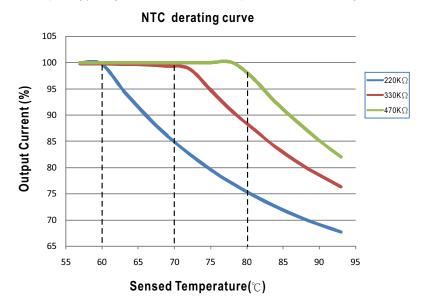
NOTE: 1. Please make sure all units are set to 100% dimming setting (factory default) before synchronizing.

2. Min. Dimming operating range depends on dimmer setting.

■ TEMPERATURE COMPENSATION OPERATION

LCM-40UDA have the built-in temperature compensation function; by connecting a temperature sensor (NTC resistor) between the +NTC /-NTC terminal of LCM-40UDA and the detecting point on the lighting system or the surrounding environment, output current of LCM-40UDA could be

correspondingly changed, based on the sensed temperature, to ensure the long life of LED.



© LCM-40UDA can still be operated normally when the NTC resistor is not connected and the value of output current will be the current level selected through the DIP switch.

◎ NTC reference:

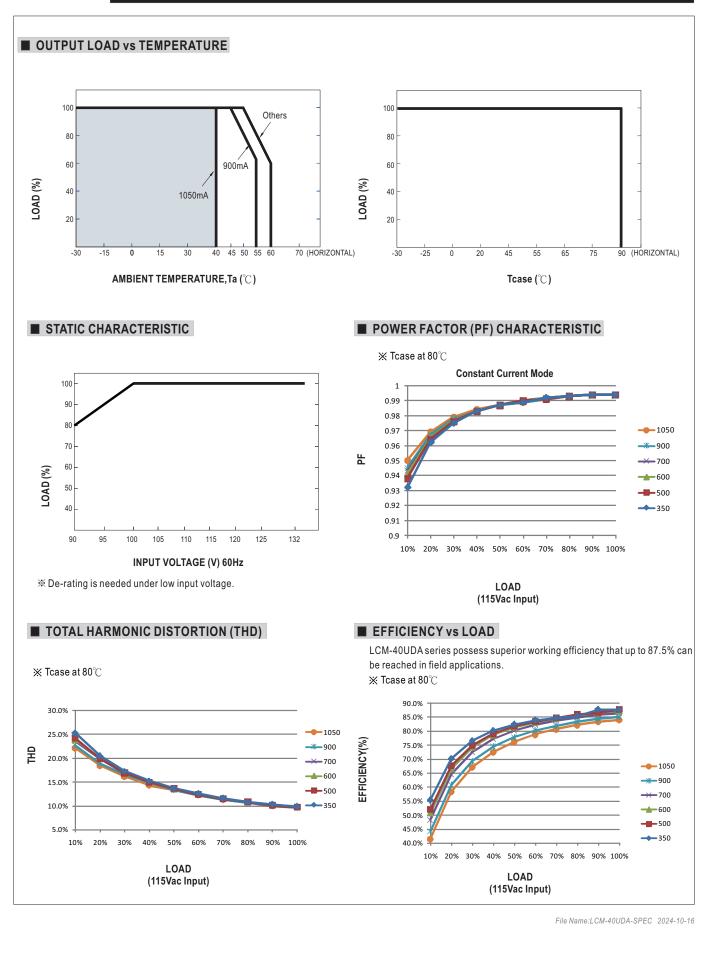
NTC resistance	Output Current
220K	< $60^{\circ}C$, 100% of the rated current (corresponds to the setting current level) > $60^{\circ}C$, output current begins to reduce, please refer to the curve for details.
330K	< 70 $^{\circ}$ C, 100% of the rated current (corresponds to the setting current level) > 70 $^{\circ}$ C, output current begins to reduce, please refer to the curve for details.
470K	< 80°C, 100% of the rated current (corresponds to the setting current level) > 80°C, output current begins to reduce, please refer to the curve for details.

Notes: 1. MEAN WELL does not offer the NTC resistor and all the data above are measured by using THINKING TTC03 series. 2. If other brands of NTC resistor is applied, please check the temperature curve first.

O Dimming and synchronization function of the driver will be invalid when the "temperature compensation" function is in use.



35W Multiple-Stage Constant Current Mode LED Driver LCM-40UDA series

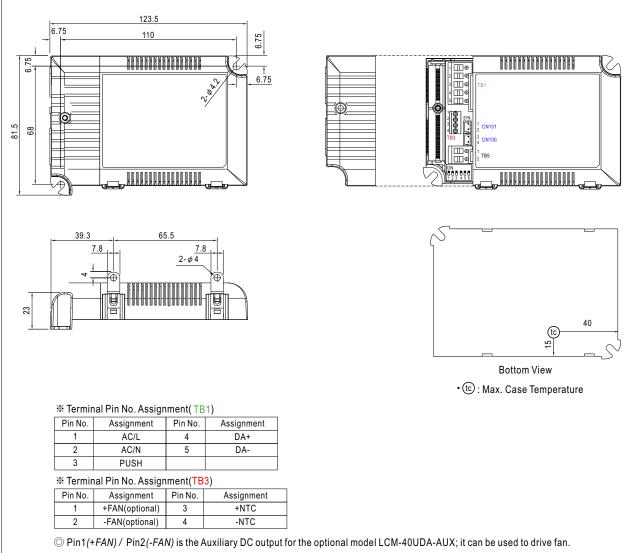




35W Multiple-Stage Constant Current Mode LED Driver LCN-40UDA series

MECHANICAL SPECIFICATION





% Terminal Pin No. Assignment(TB5)

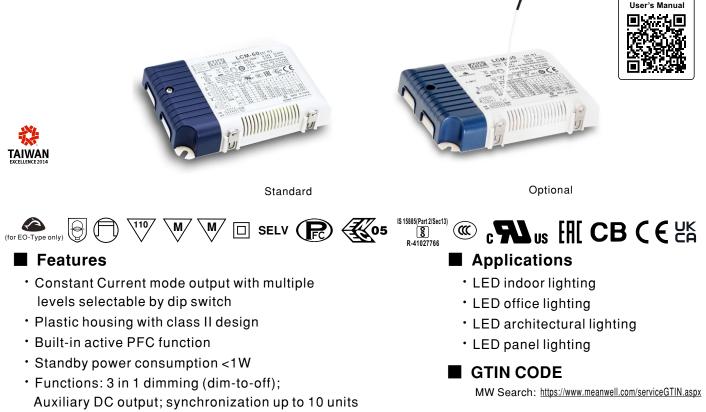
Pin No.	Assignment
1	+V
2	-V

% SYN. Connector(CN101/CN100):JST B2B-XH or equivalent

Pin No.	Assignment	Mating Housing	Terminal
1,3	+	JST XHP	JST SXH-001T-P0.6
2,4	-	or equivalent	or equivalent



LCM-60 series

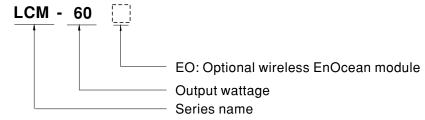


- Optional: Wireless LED driver with integrated EnOcean module
- 3 years warranty

Description

LCM-60 series is a 60W LED AC/DC constant current mode output LED driver featuring the multiple levels selectable by dip switch. LCM-60 operates from $180 \sim 295$ VAC and offers different current levels ranging between 500mA and 1400mA. Thanks to the efficiency up to 92%, with the fanless design, the entire series is able to operate for $-30^{\circ}C \sim +90^{\circ}C$ case temperature under free air convection. LCM-60 is equipped with various functions, such as the dimming function and synchronization, so as to provide the optimal design flexibility for LED lighting system.

Model Encoding



Туре	Function	Note
Blank	3 in 1 dimming (dim-to-off)	In Stock
EO	Wireless driver with integrated EnOcean module	By request



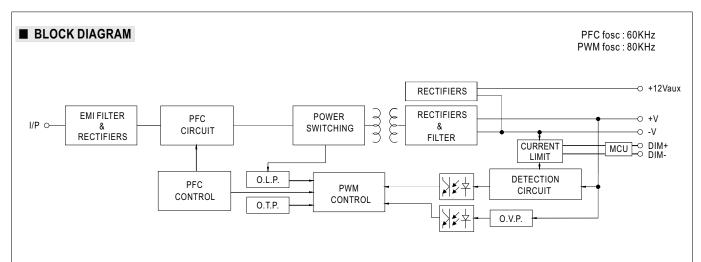


SPECIFICATION

	CURRENT LEVEL	Current level selec	table via DIP swite					
	CORRENT LEVEL	Current level selectable via DIP switch, please refer to"DIP SWITCH TABLE" section						
		500mA 600mA 700mA(default) 900mA 1050mA						
	RATED POWER	60.3W						
OUTPUT	DC VOLTAGE RANGE	2~90V	2~90V	2~86V	2~67V	2 ~ 57V	2~42V	
	OPEN CIRCUIT VOLTAGE (max.)	102V			76V			
	CURRENT RIPPLE Note.5	5.0% max. @rated	current					
	CURRENT TOLERANCE	±5%						
	AUXILIARY DC OUTPUT	Nominal 12V(devia	ation 11.4~12.6V)@	050mA				
	SETUP TIME Note.3	500ms / 230VAC						
	VOLTAGE RANGE Note.2	180 ~ 295VAC (Please refer to "S	254 ~ 417VDC TATIC CHARACTE	RISTIC" section)				
	FREQUENCY RANGE	47 ~ 63Hz						
INPUT	POWER FACTOR (Typ.)	PF≧0.975/230VAC, PF≧0.96/277VAC @full load (Please refer to "POWER FACTOR (PF) CHARACTERISTIC" section)						
	TOTAL HARMONIC DISTORTION	THD<20%(@load≧75%) (Please refer to "TOTAL HARMONIC DISTORTION(THD)" section)						
	EFFICIENCY (Typ.) Note.4	92%						
	AC CURRENT (Typ.)	0.32A/230VAC	0.27A/277VAC					
	INRUSH CURRENT (Typ.)	COLD START 20A	(twidth=270µs mea	sured at 50% Ipeak) at 230	VAC; Per NEMA 4	10		
	MAX. No. of PSUs on 16A CIRCUIT BREAKER	25 units (circuit bre	eaker of type B) / 3	2 units (circuit breaker of	type C) at 230VAC	;		
	LEAKAGE CURRENT	<0.5mA / 240VAC						
	STANDBY POWER CONSUMPTION Note.6	<1W						
	SHORT CIRCUIT	Constant current li	miting, recovers au	itomatically after fault cor	ndition is removed			
PROTECTION	OVER VOLTAGE	105 ~ 125V Shutdown o/p voltage, re-power on to recover						
	OVER TEMPERATURE	Shutdown o/p vol	• •					
	WIRELESS PROTOCOL(Optional)	•	• •	device(switch) saved int	o the memory : 33			
	DIMMING			. ,	o the memory . 55			
FUNCTION	SYNCHRONIZATION	Please refer to "DIMMING OPERATION" section Please refer to "SYNCHRONIZATION OPERATION" section						
	TEMP. COMPENSATION WORKING TEMP.	By external NTC, please refer to "TEMPERATURE COMPENSATION OPERATION"section Tcase=-30 ~ +90°C (Please refer to " OUTPUT LOAD vs TEMPERATURE" section)						
				COTFOT LOAD VS TEMP	ENATONE Sectio			
	MAX. CASE TEMP.	Tcase=+90℃						
ENVIRONMENT		20 ~ 90% RH non-	Ū					
	STORAGE TEMP., HUMIDITY	-40 ~ +80°C, 10 ~						
	TEMP. COEFFICIENT	±0.03%/°C (0~40	,					
	VIBRATION		• •	d for 60min. each along λ				
		GB19510.14,GB19	9510.1,BIS IS1588	ENEC BS EN/EN61347-1, 5, EAC TP TC 004 approv		2-13, BS EN/EN62384	independent,	
SAFETY &	WITHSTAND VOLTAGE	I/P-O/P:3.75KVAC						
ЕМС	ISOLATION RESISTANCE	I/P-O/P:>100M Oh						
	EMC EMISSION Note.7	EAC TP TC 020	,	EN/EN61000-3-2 Class C			, 	
	EMC IMMUNITY	Compliance to BS EAC TP TC 020 2628.7K hrs min.		3,4,5,6,8,11, BS EN/EN61 -332 (Bellcore) ; 260.6		level(surge immunity L	.ine-Line 2KV),	
	DIMENSION			-002 (Delicole), 200.0	ixino ililli. IVIIL	-1001-2111 (200)		
OTHERS		123.5*81.5*23mm	. ,					
NOTE	PACKING	0.24Kg ; 54pcs/15	•	AC input rated current a	nd 25°C of ombio	at temperature		
NOTE	 All parameters NOT specially mentioned are measured at 230VAC input, rated current and 25°C of ambient temperature. De-rating may be needed under low input voltages. Please refer to "STATIC CHARACTERISTIC" sections for details. Length of set up time is measured at first cold start. Turning ON/OFF the driver may lead to increase of the set up time. Efficiency is measured at 900mA/67V output set by DIP switch. Current ripple is measured 60%~100% of maximum voltage under rated power delivery. Standby power consumption is measured at 180-230VAC. The driver is considered as a component that will be operated in combination with final equipment. Since EMC performance will be affected by the complete installation, the final equipment manufacturers must re-qualify EMC Directive on the complete installation again. (as available on https://www.meanwell.com//Upload/PDF/EMI_statement_en.pdf) To fulfill requirements of the latest ErP regulation for lighting fixtures, this LED driver can only be used behind a switch without permanently connected to the mains. The ambient temperature derating of 3.5°C/1000m with fanless models and of 5°C/1000m with fan models for operating altitude higher than 2000m(650) 							



LCM-60 series

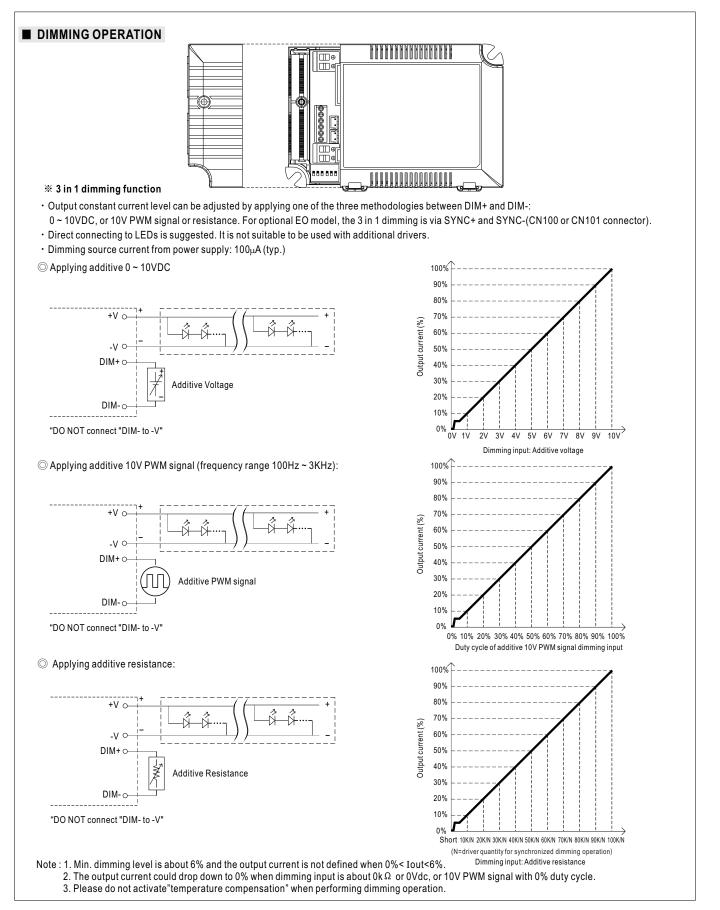


DIP SWITCH TABLE

LCM-60 is a multiple-stage constant current driver, selection of output current through DIP switch is exhibited below.

DIP S.W.	1	2	3	4	5	6
500mA						
600mA	ON					
700mA(factory default)	ON	ON				
900mA	ON	ON	ON			ON
1050mA	ON	ON	ON	ON		ON
1400mA	ON	ON	ON	ON	ON	ON



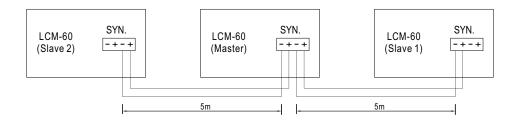




SYNCHRONIZATION OPERATION

- Synchronization up to 10 drivers (1 master + 9 slaves)
- Dimming operating range : 10%~100%
- Sync cable length : < 5m
- Sync cable type : Flat cable

Sync cable cross section area : 22 – 24 AWG (0.2~0.3mm²)

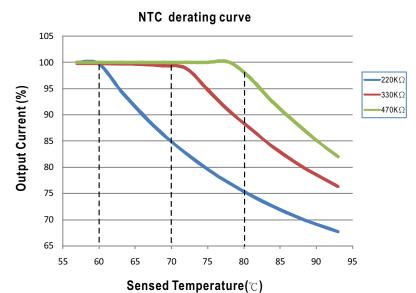


NOTE: 1. Please make sure all units are set to 100% dimming setting (factory default) before synchronizing.

- 2. For optional EO model: the master is EO and the salve could be standard model for economic arrangement.
- 3. Min. Dimming operating range depends on dimmer setting.

TEMPERATURE COMPENSATION OPERATION

LCM-60 have the built-in temperature compensation function; by connecting a temperature sensor (NTC resistor) between the +*NTC*/-*NTC* terminal of LCM-60 and the detecting point on the lighting system or the surrounding environment, output current of LCM-60 could be correspondingly changed, based on the sensed temperature, to ensure the long life of LED.



© LCM-60 can still be operated normally when the NTC resistor is not connected and the value of output current will be the current level selected through the DIP switch.

◎ NTC reference:

NTC resistance	Output Current
220K	< $60^{\circ}C$, 100% of the rated current (corresponds to the setting current level) > $60^{\circ}C$, output current begins to reduce, please refer to the curve for details.
330K	< 70 $^{\circ}$ C, 100% of the rated current (corresponds to the setting current level) > 70 $^{\circ}$ C, output current begins to reduce, please refer to the curve for details.
470K	$< 80^{\circ}$ C, 100% of the rated current (corresponds to the setting current level) > 80° C, output current begins to reduce, please refer to the curve for details.

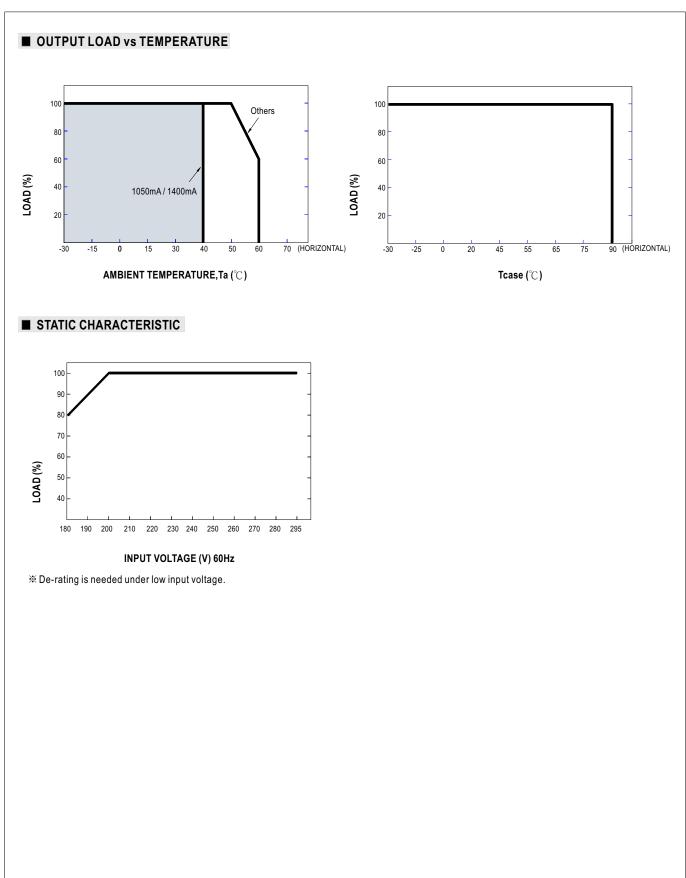
Notes: 1. MEAN WELL does not offer the NTC resistor and all the data above are measured by using THINKING TTC03 series.

2. If other brands of NTC resistor is applied, please check the temperature curve first.

O Dimming and synchronization function of the driver will be invalid when the "temperature compensation" function is in use.



LCM-60 series





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TOTAL HARMONIC DISTORTION (THD)

60W Multiple-Stage Constant Current Mode LED Driver

LCM-60 series

500mA

'00mA

900m4

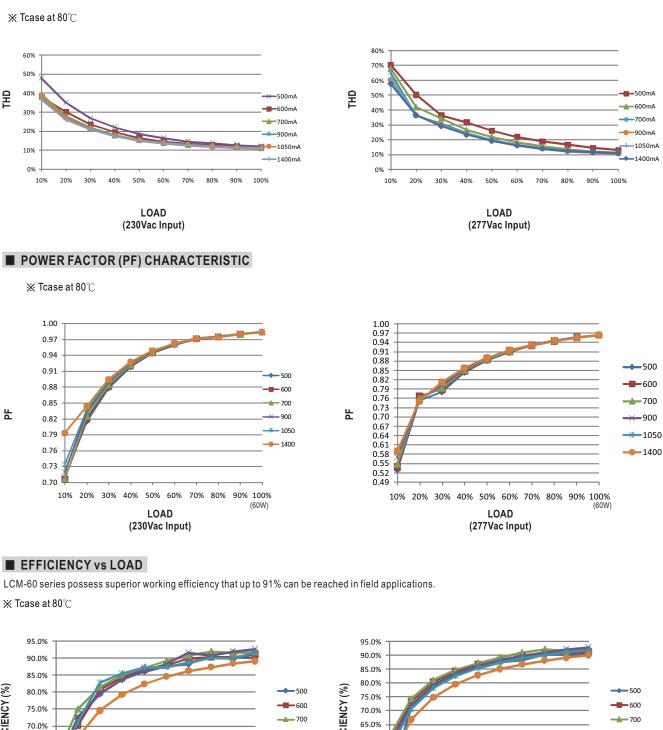
1050mA

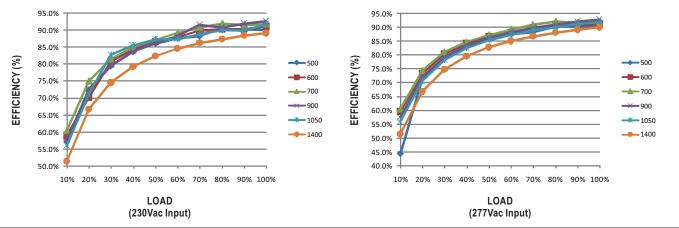
-1400mA

-700

900

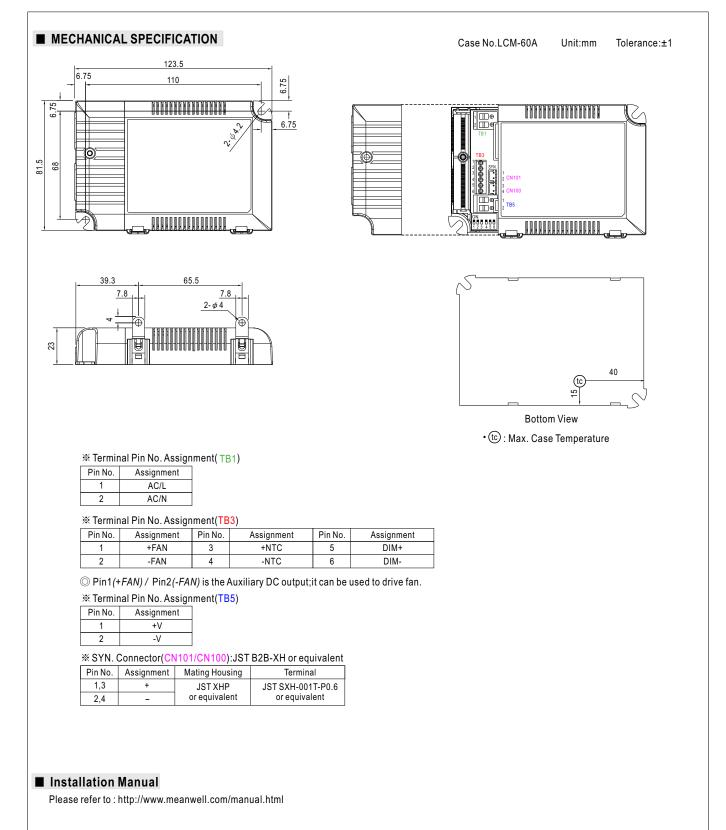
-1050





File Name:LCM-60-SPEC 2024-10-16







[★] The following is only for Optional EO model:

LRN button description

LRN (Learn) Button:

Shortly press (around 2 second) the button to enter linking (pairing) / unlinking mode.

The LED lamp connected at the output of LCM starts toggling between 10% and 90% indicating that linking mode is active. Once activated, this mode stays active to provide time to link or unlink multiple switches. The mode will stop and bak to normal mode after 30 seconds if no wireless telegram from switch is received.

For the switch to be linked, click the"I" button (top button marked on the switch plastic or "I" symbol on the back of the switch 4 times quickly, In case the output is continuous 100% 4 seconds, it mean the switch is linked successfully.

The LED driver is now ready to accept new links on another switch.

In case a linked switch to be unlinked, please use the same action as described from the linking method above. To exit linking / unlinking mode and return to normal operation, wait 30 seconds without doing anything or shortly press the button again. In order to clear all linked switches and reset the LED driver to factory settings, please press and hold the button for 10 seconds.

■ Installation & Pairing

Hareware connection: 1.Connect the LED lamp to the driver. 2.Connect the driver to the AC mains.

There are two approaches for linking(pairing): 1.Using the LRN button on the driver The instruction is in the LRN button description.

2.Using the NAVIGAN wireless software Benefit to use NAVIGAN is more dimming parameters can be configured .

The software can be download in the website link below. http://www.navigan.com/ After the software installation, insert the NWC300 into one of USB port from the computer.

For more details, please check the manual.

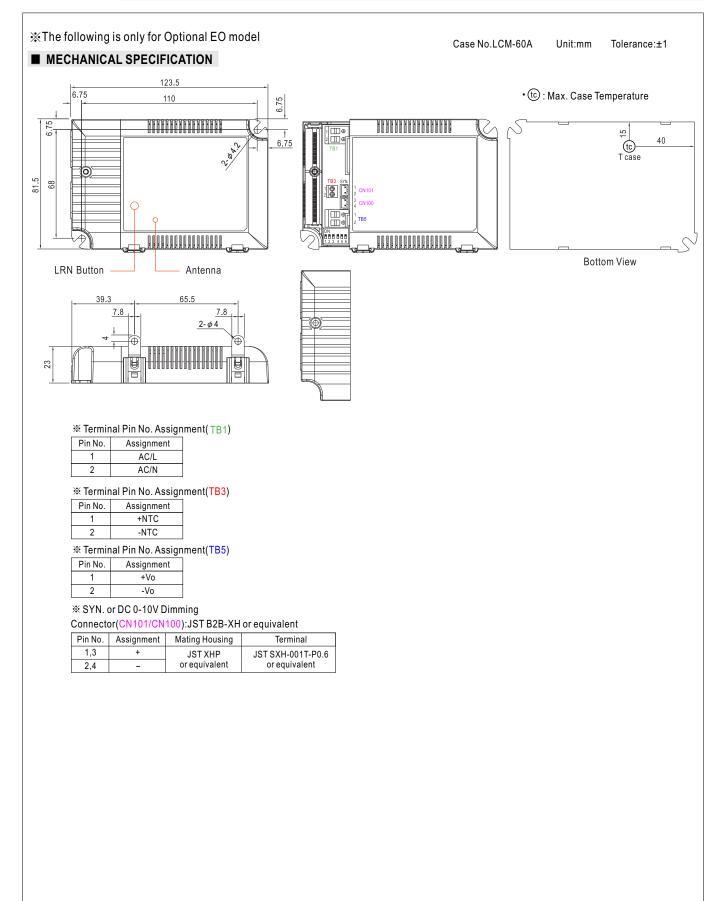


NWC300

	Controller Workspace Discover controllers and add target controllers to the workspace	
	in order to modify their links or parameters.	
	Security Code Default Discover Controllers Link Configuration Security Name Type 'f Secure Link or will be security	-
Connected to COM4	Line or united sectors and a	witches with controllers
	Linked Devices	ID Type Y
Please select the type of project		
(foring hyper)	Terms format	



LCM-60 series





■ Interoperable products / EnOcean Equipment Profile(EEP)

Support Equipment	Telegram
Rocker Pad Switch	F6-02-02
Occupancy Sensor	F5-07-01
Occupancy Sensor	A5-07-02
Occupancy Sensor	A5-07-03
Light Level Sensor	A5-06-02
Light Level Sensor	A5-06-03
Central Controller	A5-38-08
Demand Response	A5-37-01

Batteryless wireless switch supplier

MW order code:WPD-06SWT. There are many other switch supplier listed in the below.



Manufacturer	Model*
Legrand	0 784 42
Siemens	5WG4222-3AB10
Berker	24121009
Jung	ENO A 595
Busch-jaeger	EASYSENS/ENOCEAN
Gira	2422 03
Peha	D 455/61.022 FU-BLS N
Eltako F4T65	
VIMAR	20505+20506.B+21507.B

*: The model list is rovided for reference. For more information please contact original supplier



World Coverage Map

COUNTRY/REGION	STANDARD	FREQUENCY
Aruba	Possibly R & TTE Directive	868 MHz-Confirm with test house
Australia / New Zealand	N.A.	
Barbados	N.A.	Note1
Bermuda	N.A.	Note1
Bolivia	N.A.	Note1
Brazil	ANATEL	868 MHz
British Virgin Islands	N.A.	Note1
Cayman Islands	Possibly R & TTE Directive	868 MHz
CEPT(European regional)*	EN 300 220	868 MHz
Chile	Possibly R & TTE Directive	868 MHz
China	CNAS/MITT EN 300 220	868 MHz
Colombia	Possibly ANATEL	868 MHz
Ecuador	N.A.	Note1
El Salvador	Possibly R & TTE Directive	868 MHz
French Guiana	ETSI EN 300 220	868 MHz
Guatemala	N.A.	Note1
Hong Kong	Possibly 315MHz	Note1
India	Possibly 315MHz	Note1
Israel	Possibly 315MHz	Note1
Jamaica	N.A.	Note1
Japan 920**	ARIB STD-T108	928 MHz
Malaysia	SKMM WTS SRD / EN 300 220	868 MHz
Mexico	We believe Mexico does not accept FCC	868 MHz
Nicaragua	N.A.	Note1
Peru	N.A.	Note1
Panama	FCC CFR47 Part 15.249	902 MHz
Russia	N.A.	
Singapore	TS SRD / EN 300 220	868 MHz
South Africa	CASA/EN 300 220	868 MHz
South Korea	N.A.	
Suriname	N.A.	Note1
Taiwan	Possibly 315 MHz	Note1
Trinidad & Tabago	N.A.	Note1
Turks & Caicos Islands	Possibly R & TTE Directive	868 MHz
UAE	EN 300 220	868 MHz
Uruguay	N.A.	Note1
USA/Canada	FCC CFR47 Part 15.249	315 MHz, 902 MHz

Note1: It is suggested to check with local accredited certification angency.

*CEPT is the European regional organization dealing with postal and telecommunications issues and presently has 45 Members: Albania, Andorra, Austria, Azerbaijan, Belarus, Belgium, Bosnia and Herzegovina, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Liechtenstein, Lithuania, Luxembourg, Malta, Moldova, Monaco, Netherlands, Norway, Poland, Portugal, Romania, Russian Federation, San Marino, Serbia and Montenegro, Slovakia, Slovenia, Spain, Sweden, Switzerland, The former Yugoslav Republic of Macedonia, Turkey, Ukraine, United Kingdom, and Vatican.

**In February 2012, Japanese regulatory body ARIB(Association of Radio Industries and Businesses) released new 920 MHZ frequency band for radio equipment, due to LTE rollout, The 950 MHz frequency band will be obsolete by end of 2015.





Features

ΔΙ\Λ/ΔΝ

DALD

r DA2-Type only)

EL

- · Constant Current mode output with multiple levels selectable by dip switch
- · Emergency lighting application is available according to IEC61347-2-13
- Built-in active PFC function and class II design
- Standby power consumption <0.5W
- · Functions: DALI interface(logarithm or linear dimming curve selectable), push dimming synchronization up to 10 units

- Applications
 - LED indoor lighting
 - LED office lighting
 - LED commercial lighting
 - LED panel lighting
 - Industrial lighting

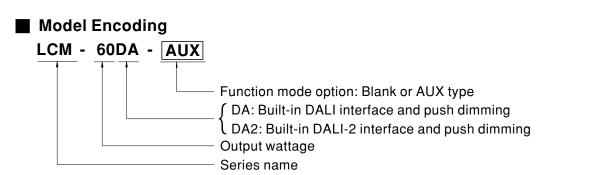
GTIN CODE

MW Search: https://www.meanwell.com/serviceGTIN.aspx

3 years warranty

Description

LCM-60DA series is a 60W AC/DC constant current mode output LED driver featuring the multiple levels selectable by dip switch and the DALI interface with the compliance to IEC62386. LCM-60DA operates from 180 \sim 295VAC and offers different current levels ranging between 500mA and 1400mA. Thanks to the high efficiency up to 92%, with the fanless design, the entire series is able to operate for -30 $^\circ$ C ~+90 $^\circ$ C case temperature under free air convection. In addition, LCM-60DA is equipped with push dimming and synchronization functions, so as to provide the optimal design flexibility for LED lighting system.



Туре	Function	Note
Blank	standby power consumption <0.5W	In Stock
AUX	standby power consumption <1.2W and Auxiliary DC output(12V/50mA)	By request

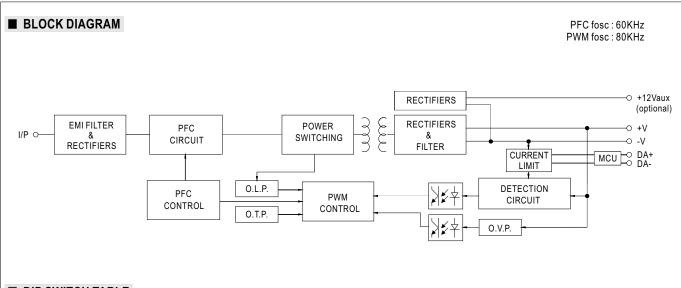


SPECIFICATION

MODEL										
MODEL										
	CURRENT LEVEL			ch, please refer to"DIP SW						
		500mA	600mA	700mA(default)	900mA	1050mA	1400mA			
	RATED POWER	60.3W								
OUTPUT	DC VOLTAGE RANGE	2~90V	2 ~ 90V	2 ~ 86V	2~67V	2 ~ 57V	2 ~ 42V			
	OPEN CIRCUIT VOLTAGE (max.)	95V			73V					
	CURRENT RIPPLE Note.5	5.0% max. @rate	d current							
	CURRENT TOLERANCE	±5%								
	AUXILIARY DC OUTPUT	Nominal 12V(dev	iation 11.4~12.6V)	@50mA for AUX-Type only	/					
	SETUP TIME Note.3 Note.9	500ms / 230VAC								
	VOLTAGE RANGE Note.2	180 ~ 295VAC (Please refer to "S	254 ~ 392VDC STATIC CHARACT	ERISTIC" section)						
	FREQUENCY RANGE	47 ~ 63Hz								
	POWER FACTOR (Typ.)	$PF \ge 0.975/230VAC$, $PF \ge 0.95/277VAC$ @full load Please refer to "POWER FACTOR (PF) CHARACTERISTIC" section)								
	TOTAL HARMONIC DISTORTION		THD< 20%(@load≧75%) (Please refer to "TOTAL HARMONIC DISTORTION(THD)" section)							
INPUT	EFFICIENCY (Typ.) Note.4	92%								
	AC CURRENT (Typ.)	0.32A/230VAC	0.27A/277VAC							
	INRUSH CURRENT (Typ.)	COLD START 204	(twidth=270µs mea	sured at 50% Ipeak) at 230V/	AC; Per NEMA 410					
	MAX. No. of PSUs on 16A CIRCUIT BREAKER	25 units (circuit b	reaker of type B) /	32 units (circuit breaker of	type C) at 230VAC	;				
	LEAKAGE CURRENT	<0.5mA/240VA0	;							
	STANDBY POWER CONSUMPTION Note.6	<0.5W for Blank-	0.5mA/ 240VAC 0.5W for Blank-Type, <1.2W for AUX-Type							
	SHORT CIRCUIT	Constant current	limiting, recovers a	automatically after fault cor	dition is removed					
PROTECTION	OVER VOLTAGE	105 ~ 125V Shutdown o/p voltage, re-power on to recover								
	OVER TEMPERATURE	Shutdown o/p vo	Itage, re-power or	n to recover						
	DIMMING	Please refer to "	DIMMING OPERA	TION" section						
FUNCTION	SYNCHRONIZATION			ION OPERATION" section	1					
	TEMP. COMPENSATION	By external NTC, please refer to "TEMPERATURE COMPENSATION OPERATION"section								
	WORKING TEMP.		· •	"OUTPUT LOAD vs TEMP						
	MAX. CASE TEMP.	Tcase=+90°C		COTTOT LOND VS TEM		")				
	WORKING HUMIDITY	20 ~ 90% RH non	condoncing							
ENVIRONMENT			U U							
	STORAGE TEMP., HUMIDITY	-40 ~ +80°C, 10 ~ 95% RH								
	TEMP. COEFFICIENT	±0.03%/°C (0~50°C)								
	VIBRATION	10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes								
	SAFETY STANDARDS	UL8750(except for DA2-Type), CSA C22.2 No.250.13-12, ENEC BS EN/EN61347-1, BS EN/EN61347-2-13, BS EN/EN62384 independent,GB19510.14, GB19510.1,BIS IS15885(except for DA2-Type), EAC TP TC 004 approved; According to BS EN/EN61347-2-13 appendix J suitable for emergency installations(EL)(AC Input: 200-240Vac)(for DA2-Type only)								
SAFETY &	DALI STANDARDS	IEC62386-101, 1	02, 207,251							
EMC	WITHSTAND VOLTAGE	I/P-O/P:3.75KVA	C; I/P-DA:1.5KVAC	; O/P-DA:1.5KVAC						
	ISOLATION RESISTANCE	I/P-O/P:>100M O	hms / 500VDC / 25	5°C/70% RH						
	EMC EMISSION Note.7	Compliance to BS EAC TP TC 020	8 EN/EN55015, BS	EN/EN61000-3-2 Class C	(@load≧40%) ; B	S EN/EN61000-3-3; G	B/T 17743, GB17625.1,			
		EAC TP TC 020		,3,4,5,6,8,11, BS EN/EN61			ine-Line 2KV),			
	MTBF	2270.7K hrs min.		32 (Bellcore) ; 193.7K hrs i	min. MIL-HDBK	-217F (25℃)				
OTHERS	DIMENSION	123.5*81.5*23mr	. ,							
	PACKING	0.24Kg ; 54pcs/1	•							
NOTE	 All parameters NOT specially mentioned are measured at 230VAC input, rated current and 25°C of ambient temperature. De-rating may be needed under low input voltages. Please refer to "STATIC CHARACTERISTIC" sections for details. Length of set up time is measured at first cold start. Turning ON/OFF the driver may lead to increase of the set up time. Efficiency is measured at 900mA/67V output set by DIP switch. Current ripple is measured at 900mA/67V output set by DIP switch. Standby power consumption is measured at 180~230VAC. The driver is considered as a component that will be operated in combination with final equipment. Since EMC performance will be affected by the complete installation, the final equipment manufacturers must re-qualify EMC Directive on the complete installation again. (as available on https://www.meanwell.com//Upload/PDF/EMI_statement_en.pdf) The ambient temperature derating of 3.5°C/1000m with fanless models and of 5°C/1000m with fan models for operating altitude higher than 2000m(6500) Based on IEC 62386-101/102 DALI power on timing and interruption regulations, the set up time needs to test with a DALI controller which can support for DALI power on function, otherwise the set up time will be higher than 0.5 second for DA2-type. To fulfill requirements of the latest ErP regulation for lighting fixtures, this LED power supply can only be used behind a switch without permanently connected to the mains. XP roduct Liability Disclaimer : For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx 									



LCM-60DA series



DIP SWITCH TABLE

LCM-60DA/DA2 is a multiple-stage constant current driver, selection of output current through DIP switch is exhibited below.

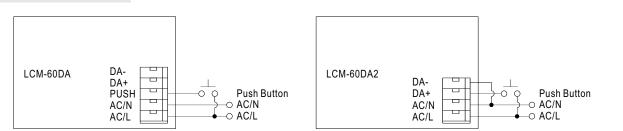
lo DIP S.W.	1	2	3	4	5	6
500mA						
600mA	ON					
700mA(factory default)	ON	ON				
900mA	ON	ON	ON			ON
1050mA	ON	ON	ON	ON		ON
1400mA	ON	ON	ON	ON	ON	ON

Note: For more current setting, please contact $\ensuremath{\mathsf{MW}}\xspace's$ sales.



LCM-60DA series

DIMMING OPERATION



℁PUSH dimming(primary side)

Action	Action duration	Function
Short push	0.1~1 sec.	Turn ON-OFF the driver
Long push	1.5~10 sec.	Every Long Push changes the dimming direction, dimming up or down
Reset	>11 sec.	Set up the dimming level to 100%

• The factory default dimming level is at 100%.

• If the push action lasts less than 0.05 sec., it will not lead to a change for the status of the driver.

• Up to 10 drivers can perform the PUSH dimming at the same time when utilizing one common push button.

• The maximum length of the cable from the push button to the last driver is 20 meters.

• The additive push button can be connected only between the PUSH terminal, as displayed in the diagram, and AC/L (in brown or black); it will lead to short circuit if it is connected to AC/N.

※DALI interface(primary side; for DA/DA2-Type)

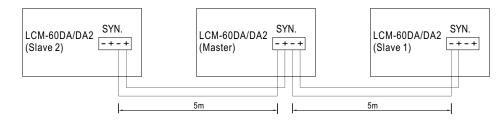
- · Apply DALI signal between DA+ and DA-
- DALI protocol comprises 16 groups and 64 addresses.
- · First step is fixed at 6% of output.



LCM-60DA series

SYNCHRONIZATION OPERATION

- Synchronization up to 10 drivers (1 master + 9 slaves)
- Dimming operating range : 10%~100%
- Sync cable length : < 5m
- Sync cable type : Flat cable
- Sync cable cross section area : 22 24 AWG (0.2~0.3mm²)

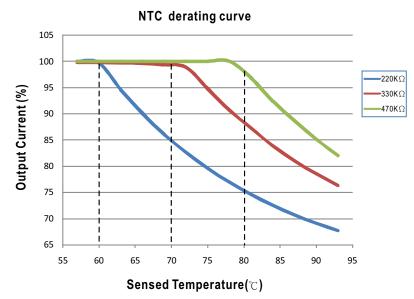


NOTE: 1. Please make sure all units are set to 100% dimming setting (factory default) before synchronizing.

2. Min. Dimming operating range depends on dimmer setting.

■ TEMPERATURE COMPENSATION OPERATION

LCM-60DA/DA2 have the built-in temperature compensation function; by connecting a temperature sensor (NTC resistor) between the +*NTC /-NTC* terminal of LCM-60DA/DA2 and the detecting point on the lighting system or the surrounding environment, output current of LCM-60DA/DA2 could be correspondingly changed, based on the sensed temperature, to ensure the long life of LED.



© LCM-60DA/DA2 can still be operated normally when the NTC resistor is not connected and the value of output current will be the current level selected through the DIP switch.

NTC reference:

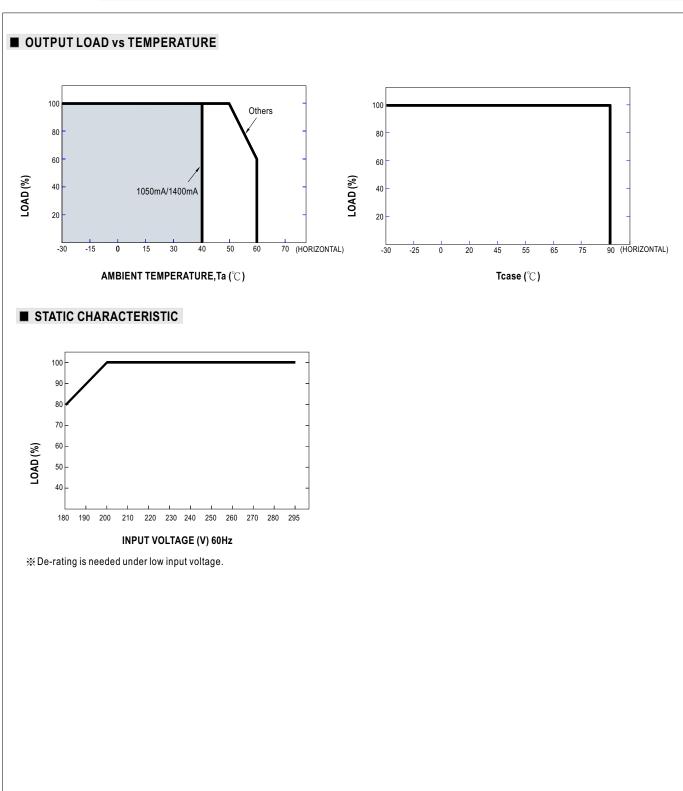
NTC resistance	Output Current
220K	< 60° C, 100% of the rated current (corresponds to the setting current level) > 60° C, output current begins to reduce, please refer to the curve for details.
330K	$<70^\circ\text{C}$, 100% of the rated current (corresponds to the setting current level) $>70^\circ\text{C}$, output current begins to reduce, please refer to the curve for details.
470K	< 80°C, 100% of the rated current (corresponds to the setting current level) > 80°C, output current begins to reduce, please refer to the curve for details.

Notes: 1. MEAN WELL does not offer the NTC resistor and all the data above are measured by using THINKING TTC03 series. 2. If other brands of NTC resistor is applied, please check the temperature curve first.

© Dimming and synchronization function of the driver will be invalid when the "temperature compensation" function is in use.



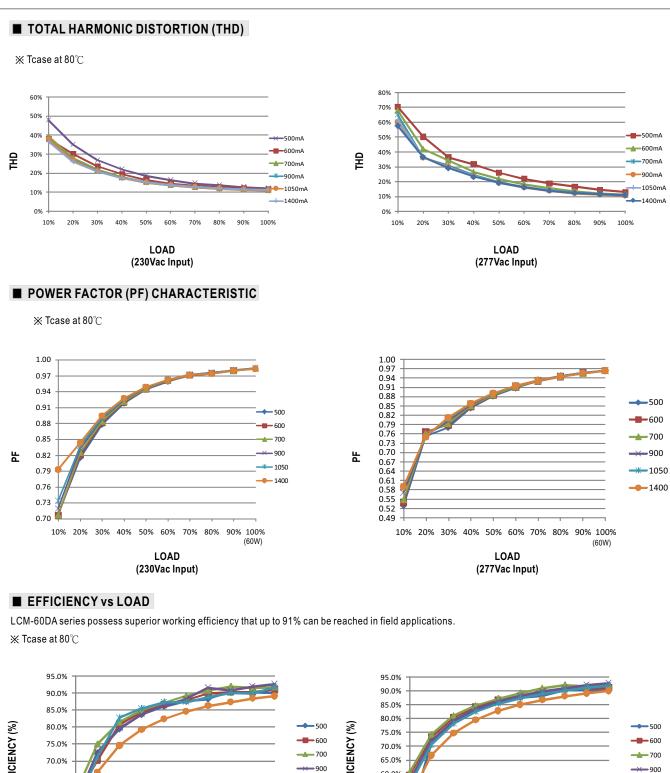
LCM-60DA series

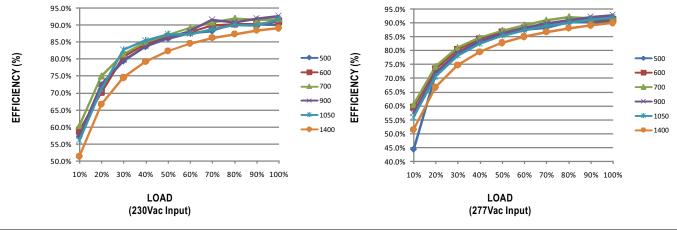


File Name:LCM-60DA-SPEC 2024-10-16



LCM-60DA series



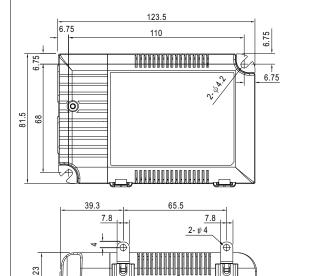


File Name:LCM-60DA-SPEC 2024-10-16



LCM-60DA series

■ MECHANICAL SPECIFICATION



* Terminal Pin No. Assignment(TB1)(I CM-60DA)

Pin No.	Assignment	Pin No.	Assignment				
1 AC/L		4	DA+				
2 AC/N		5	DA-				
3	PUSH						

※ Terminal Pin No. Assignment(TB1)(LCM-60DA2)

Assignment	Pin No.	Assignment
AC/L	4	DA-
AC/N		
DA+		
	AC/L AC/N	AC/L 4 AC/N

※ Terminal Pin No. Assignment(TB3)

Pin No.	Pin No. Assignment		Assignment
1	+FAN(+AUX)	3	+NTC
2	-FAN(-AUX)	4	-NTC

© Pin1(+FAN) / Pin2(-FAN) is the Auxiliary DC output for the optional model LCM-60DA-AUX; it can be used to drive fan.

※ Terminal Pin No. Assignment(TB5)

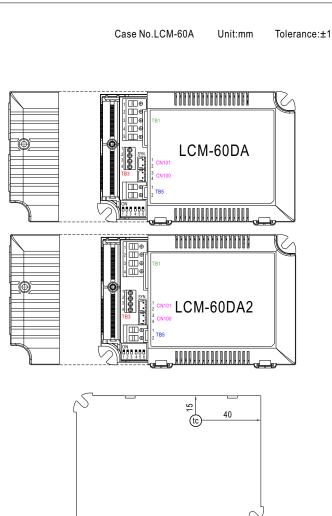
Pin No.	Assignment
1	+V
2	-V

% SYN. Connector(CN101/CN100):JST B2B-XH or equivalent

Pin No.	Assignment	Mating Housing	Terminal		
1,3	+	JST XHP	JST SXH-001T-P0.6		
2,4	-	or equivalent	or equivalent		

Installation Manual

Please refer to : http://www.meanwell.com/manual.html



Bottom View

• (tc) : Max. Case Temperature



∎rãrX







- Constant Current mode output with multiple levels selectable by dip switch
- KNX/EIB protocol
- · Flicker free design
- Support emergency lighting(EL)
- Integrated constant light output
- Integrated KNX push button interface
- Synchronization up to 10units
- · Functions: Manual dim, operation hours, power consumption feedback, log/linear curve selection...etc
- 3 years warranty

Description

LCM-60KN series is a 60W AC/DC constant current mode output LED driver featuring the multiple levels selectable by dip switch and the KNX interface to avoid using the complicated KNX-DALI gateway. LCM-60KN operates from 180~295VAC and offers different current levels ranging between 500mA and 1400mA. Thanks to the high efficiency up to 91%, with the fanless design, the entire series is able to operate for -30° C \rightarrow +90 $^{\circ}$ C case temperature under free air convection. In addition, LCM-60KN is equipped with push dimming and synchronization so as to provide the optimal design flexibility for LED lighting system.

■ Model Encoding LCM - <u>60KN</u> - <u>AU</u>	X	
	 Function mode option Built-in KNX interface Output wattage Series name 	

Туре	Function	Note
Blank	KNX and push dimming ,with standby power consumption <0.5W	In Stock
AUX	KNX and push dimming, with standby power consumption <1.2W and Auxiliary DC output	By request

- LED indoor lighting
- LED office lighting
- LED architectural lighting
- LED panel lighting

GTIN CODE

MW Search: https://www.meanwell.com/serviceGTIN.aspx



SPECIFICATION

MODEL											
MODEL		LCM-60KN- Current level selectable via DIP switch, please refer to "DIP SWITCH TABLE" section									
	CURRENT LEVEL	-									
		500mA	600mA	700mA(default)	900mA	1050mA	1400mA				
	RATED POWER	60.3W									
OUTPUT	DC VOLTAGE RANGE	2~90V	2 ~ 90V	2~86V	2~67V	2~57V	2 ~ 42V				
	OPEN CIRCUIT VOLTAGE (max.)	95V 73V									
	CURRENT RIPPLE Note.5	5.0% max. @rated current									
	CURRENT TOLERANCE	±5%									
	AUXILIARY DC OUTPUT	Nominal 12V(deviation 11.4~12.6V)@50mA for AUX-Type only									
	SETUP TIME Note.3	500ms / 230VAC									
	VOLTAGE RANGE Note.2	180 ~ 295VAC (Please refer to "	80 ~ 295VAC 220 ~ 392VDC Please refer to "STATIC CHARACTERISTIC" section)								
	FREQUENCY RANGE	47 ~ 63Hz									
	POWER FACTOR (Typ.)		/AC, PF≧0.93/27 POWER FACTOR	7VAC@full load (PF) CHARACTERISTIC	section)						
	TOTAL HARMONIC DISTORTION	THD< 20%(@loa (Please refer to '		IC DISTORTION(THD)" s	ection)						
INPUT	EFFICIENCY (Typ.) Note.4	91%									
	AC CURRENT (Typ.)	0.32A/230VAC									
	INRUSH CURRENT (Typ.)	COLD START 20	A(twidth=320µs mea	sured at 50% Ipeak) at 230V	AC; Per NEMA 410						
	MAX. No. of PSUs on 16A CIRCUIT BREAKER	20 units (circuit b	reaker of type B) /	34 units (circuit breaker of	f type C) at 230VAC	2					
	LEAKAGE CURRENT	<0.5mA/240VA	0								
	STANDBY POWER CONSUMPTION Note.6	<0.5W for Blank-	<0.5W for Blank-Type, <1.2W for AUX-Type								
	SHORT CIRCUIT	Constant current	limiting, recovers a	automatically after fault cor	ndition is removed						
PROTECTION	OVER VOLTAGE	105 ~ 125V Shutdown o/p voltage, re-power on to recover									
	OVER TEMPERATURE	Shutdown o/p vo	ltage,re-power on	to recover							
		Please refer to "DIMMING OPERATION" section									
EUNCTION	SYNCHRONIZATION			ON OPERATION" section							
	TEMP. COMPENSATION			EMPERATURE COMPEN		FION"section					
	WORKING TEMP.	,	· ·	" OUTPUT LOAD vs TEM							
	MAX. CASE TEMP.	Tcase=+90°C				,					
		20 ~ 90% RH nor	n-condensing								
ENVIRONMENT	STORAGE TEMP., HUMIDITY	-40 ~ +80°C, 10									
	TEMP. COEFFICIENT	±0.03%/°C (0~									
	VIBRATION	- 1	- /	od for 60min. each along X	7 V 7 aves						
	SAFETY STANDARDS	ENEC BS EN/EN GB19510.14 and	161347-1, BS EN/E I GB19510.1(by re	EN61347-2-13, BS EN/EN quest)approved ; Accordin	62384 independer ng to BS EN/EN50	172, BS EN/EN 60598					
	KNX STANDARDS	BS EN/EN61347-2-13 appendix J suitable for emergency installations(EL)(AC Input: 200-240Vac) Certified protocol									
SAFETY &	WITHSTAND VOLTAGE	I/P-O/P:3.75KVA									
EMC	ISOLATION RESISTANCE		hms / 500VDC / 25	5°C / 70% RH							
	EMC EMISSION Note.7	Compliance to BS EAC TP TC 020	6 EN/EN55015, BS	EN/EN61000-3-2 Class C(@load≧40%) ; BS	EN/EN61000-3-3; GB/	T 17743, GB17625.1,				
	EMC IMMUNITY	Compliance to BS EAC TP TC 020	S EN/EN61000-4-2,	3,4,5,6,8,11, BS EN/EN615	647, light industry le	evel(surge immunity Lin	e-Line 2KV),				
	MTBF	1764.2K hrs min.		32 (Bellcore); 190.0K hrs	min. MIL-HDBK	-217F (25°C)					
OTHERS	DIMENSION	123.5*81.5*23mr	· · /								
	PACKING	0.24Kg ; 54pcs/1	-								
NOTE	 All parameters NOT specially mentioned are measured at 230VAC input, rated current and 25°C of ambient temperature. De-rating may be needed under low input voltages. Please refer to "STATIC CHARACTERISTIC" sections for details. Length of set up time is measured at first cold start. Turning ON/OFF the driver may lead to increase of the set up time. Efficiency is measured at 900mA/67V output set by DIP switch. Current ripple is measured 60%~100% of maximum voltage under rated power delivery. Standby power consumption is measured at 180~230VAC. The driver is considered as a component that will be operated in combination with final equipment. Since EMC performance will be affected by the complete installation, the final equipment manufacturers must re-qualify EMC Directive on the complete installation again. (as available on https://www.meanwell.com/Upload/PDF/EMI_statement_en.pdf) The ambient temperature derating of 3.5°C/1000m with fanless models and of 5°C/1000m with fan models for operating altitude higher than 2000m(6500ft To fulfill requirements of the latest ErP regulation for lighting fixtures, this LED power supply can only be used behind a switch without permanently connected to the mains. Product Liability Disclaimer : For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx 										



LCM-60KN series

BLOCK DIAGRAM PFC fosc : 60KHz PWM fosc : 80KHz ○ +12Vaux RECTIFIERS (optional) EMI FILTER RECTIFIERS POWER 3 PFC • +V I/P O & & SWITCHING CIRCUIT RECTIFIERS FILTER CURRENT MCU O KNX+ LIMIT ۱ 0.L.P. DETECTION PFC PWM CIRCUIT CONTROL CONTROL 0.T.P. 0.V.P.

DIP SWITCH TABLE

LCM-60KN is a multiple-stage constant current driver, selection of output current through DIP switch is exhibited below.

DIP S.W.	1	2	3	4	5	6	Max. LED voltage
500mA							90V
600mA	ON						90V
700mA(factory default)	ON	ON					86V
900mA	ON	ON	ON			ON	67V
1050mA	ON	ON	ON	ON		ON	57V
1400mA	ON	ON	ON	ON	ON	ON	42V

More current options through DIP switch are exhibited below.

DIP S.W.	1	2	3	4	5	6	Max. LED voltage
650mA				ON			83V
750mA	ON			ON			80V
800mA		ON	ON				75V
850mA					ON		71V
950mA		ON	ON	ON		ON	64V
1000mA				ON	ON	ON	60V
1100mA	ON			ON	ON	ON	55V
1150mA		ON	ON		ON	ON	52V
1200mA			ON	ON	ON	ON	50V
1250mA	ON	ON	ON		ON	ON	48V
1300mA		ON	ON	ON	ON	ON	46V

Note: The max. LED voltage connected at the output should be always less than the table above.



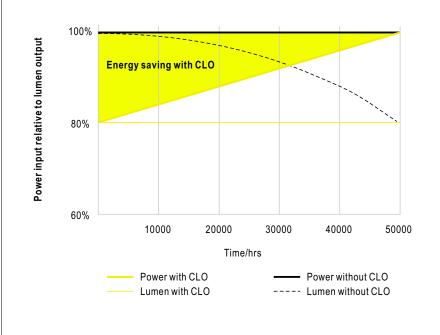
■ DIMMING OPERATION

℅ KNX interface

- Apply KNX Bus cable between KNX+ and KNX-
- The application program(database) can be downloaded via Online Catalogs from ETS or via http://www.meanwell.com/productCatalog.aspx

Parametrization options	Description
Switch functions	 Turn on brightness Dimming speed for turn on/off Switch telegram and status Switch on/off delay
Dimming	 Dimming speed for 0~100% Allow switch on via relative dimming Push dimming with AC inut port Block object for push dimming
Brightness value	 Dimming speed for transition brightness values Permit set switch on and off brightness via value Brightness value and status
Faultmessage	Lamp fault AC/DC input monitor fault messages
Other functions	 Reaction on KNX voltage failure/recovery Power-On level Dimming curve select(linear/log) Synchronous dimming output Block function(Block1&Block2) Staircase lighting function(multi-stage switch-off)
General function	Cyclic monitoring telegram(In operation)
8 Scenes	Recall and save via KNX with 8-bit telegram
Operating hours & CLO	Operating hours counter Constant light out(5 scheduled divisions)
Power consumption feedback	Power consumption report

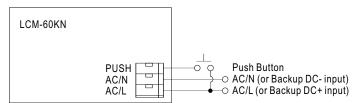
※ CONSTANT LIGHT OUTPUT





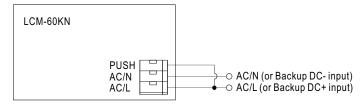


 \odot PUSH dimming



- KNX bus need to be connected when using PUSH Dimming
- The detailed function of PUSH dimming, please refer to the database.
- The maximum length of the cable between the push button and driver is 20 meters.
- The mechanical push button can be connected only between the PUSH terminal, as displayed in the diagram, and AC/L (in brown or black); it will lead to short circuit if it is connected to AC/N.
- In case the PUSH dimming is set locally, up to 10 drivers can perform the PUSH dimming at the same time when utilizing one common push button.
- In case the PUSH dimming is set independently via ETS, the number of drivers is done through group address and determined by the ETS project designer.

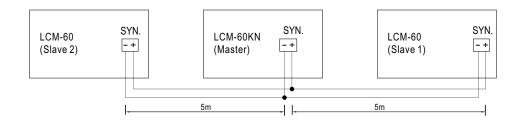
\odot AC/DC input monitor



- · KNX bus need to be connected when using AC/DC input monitor
- The detailed function of AC/DC input monitor(emergency lighting), please refer to the database and instruction manual.

SYNCHRONIZATION OPERATION

- · Synchronization up to 10 drivers (1 master + 9 slaves)
- Dimming operating range : 6%~100%
- Sync cable length : < 5m
- Sync cable type : Flat cable
- Sync cable cross section area : 22 24 AWG (0.2~0.3mm²)

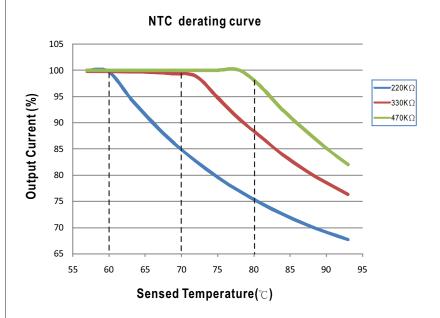


NOTE : Min. Dimming operating range depends on database setting.



■ TEMPERATURE COMPENSATION OPERATION

LCM-60KN have the built-in temperature compensation function; by connecting a temperature sensor (NTC resistor) between the +NTC /-NTC terminal of LCM-60KN and the detecting point on the lighting system or the surrounding environment, output current of LCM-60KN could be correspondingly changed, based on the sensed temperature, to ensure the long life of LED.



© LCM-60KN can still be operated normally when the NTC resistor is not connected and the value of output current will be the current level selected through the DIP switch.

◎ NTC reference:

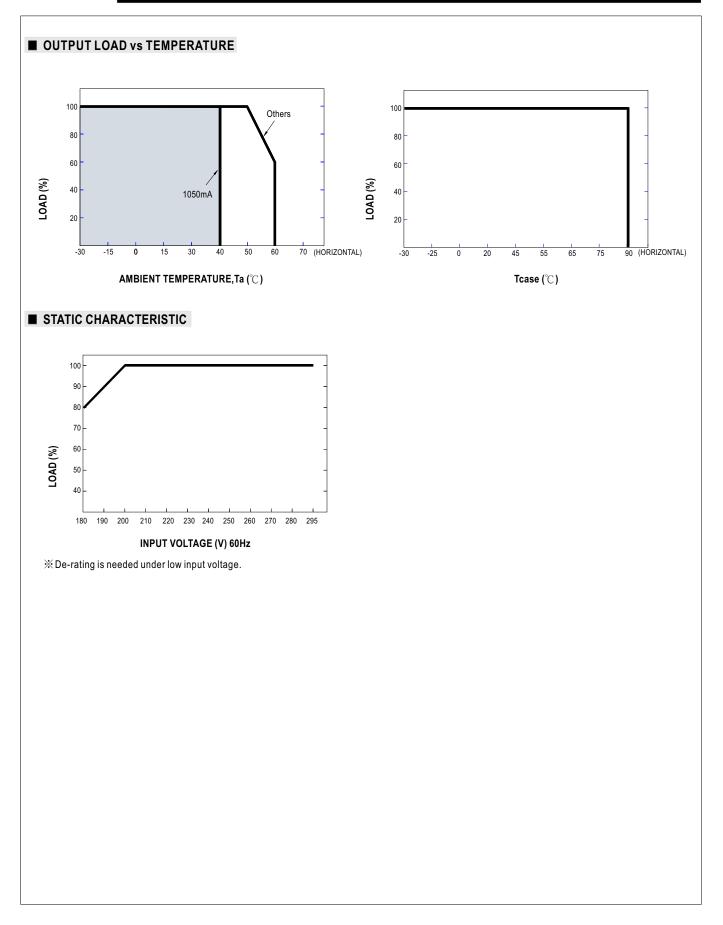
NTC resistance	Output Current
220K	< 60° C, 100% of the rated current (corresponds to the setting current level) > 60° C, output current begins to reduce, please refer to the curve for details.
330K	< 70 $^{\circ}$ C, 100% of the rated current (corresponds to the setting current level) > 70 $^{\circ}$ C, output current begins to reduce, please refer to the curve for details.
470K	< 80° C, 100% of the rated current (corresponds to the setting current level) > 80° C, output current begins to reduce, please refer to the curve for details.

Notes: 1. MEAN WELL does not offer the NTC resistor and all the data above are measured by using THINKING TTC03 series. 2. If other brands of NTC resistor is applied, please check the temperature curve first.

© KNX control, dimming and synchronization function of the driver will be invalid when the "temperature compensation" function is in use.



LCM-60KN series



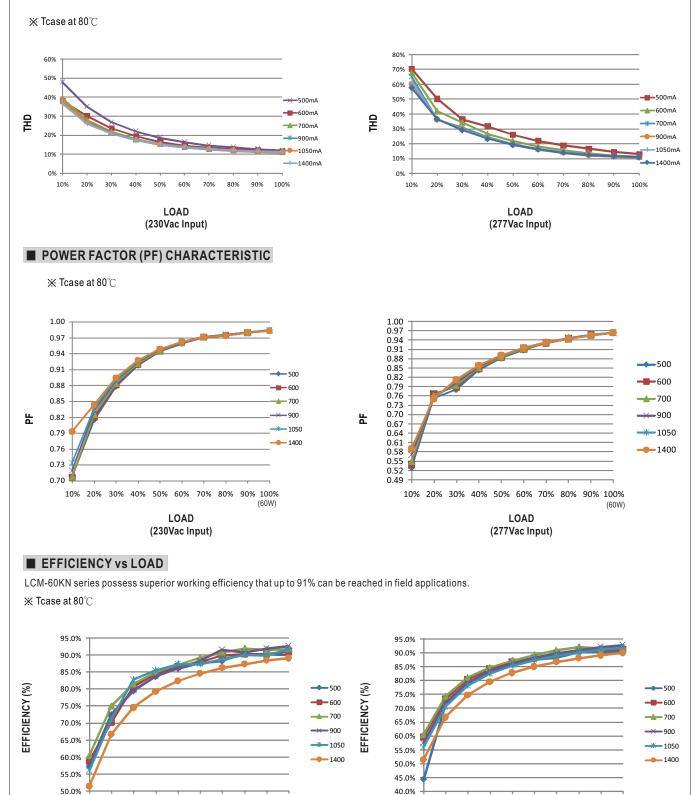


TOTAL HARMONIC DISTORTION (THD)

10% 20% 30% 40% 50% 60% 70% 80% 90% 100%

LOAD

(230Vac Input)



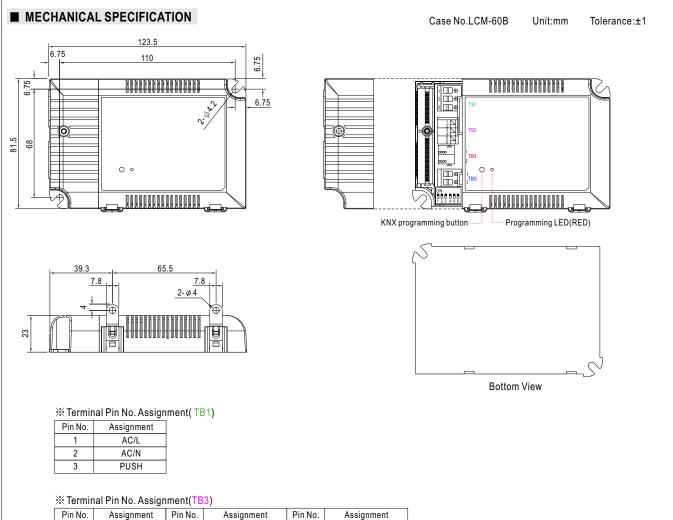
10% 20% 30% 40% 50% 60% 70% 80% 90% 100%

LOAD

(277Vac Input)



LCM-60KN series



Pin No.	Assignment	Pin No.	Assignment	Pin No.	Assignment
1	+FAN(optional)	3	+NTC	5	+SYN
2	-FAN(optional)	4	-NTC	6	-SYN

© Pin1(+FAN) / Pin2(-FAN) is the Auxiliary DC output for the optional model LCM-60KN-AUX; it can be used to drive fan.

※ Terminal Pin No. Assignment(TB4)

Pin No.	Assignment
1	KNX-
2	KNX+

※ Terminal Pin No. Assignment(TB5)

	0
Pin No.	Assignment
1	+V
2	-V

Installation Manual

Please refer to : http://www.meanwell.com/manual.html



50W Multiple-Stage Constant Current Mode LED Driver LCM-60U series







Features

- Constant Current mode output with multiple levels selectable by dip switch
- Plastic housing with class II design
- Built-in active PFC function
- Functions: 3 in 1 dimming (dim-to-off); Auxiliary DC output; synchronization up to 10 units
- 3 years warranty

Applications

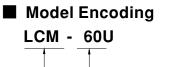
- LED indoor lighting
- · LED office lighting
- LED architectural lighting
- LED panel lighting

GTIN CODE

MW Search: https://www.meanwell.com/serviceGTIN.aspx

Description

LCM-60U series is a 50W LED AC/DC constant current mode output LED driver featuring the multiple levels selectable by dip switch. LCM-60U operates from $90 \sim 132$ VAC and offers different current levels ranging between 500mA and 1400mA. Thanks to the efficiency up to 89%, with the fanless design, the entire series is able to operate for $-30^{\circ}C \sim +90^{\circ}C$ case temperature under free air convection. LCM-60U is equipped with various functions, such as the dimming function and synchronization, so as to provide the optimal design flexibility for LED lighting system.



Output wattage
Series name

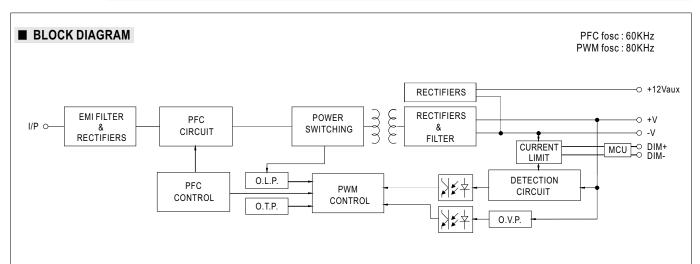


SPECIFICATION

MODEL		LCM-60U									
		Current level sel	ectable via DIP swite	ch, please refer to"DIP SV	/ITCH TABLE" sect	ion					
	CURRENT LEVEL	500mA	600mA	700mA(default)	900mA	1050mA	1400mA				
	RATED POWER	50.4W		·	·		·				
Ουτρυτ	DC VOLTAGE RANGE	2~90V	2~84V	2 ~ 72V	2 ~ 56V	2 ~ 48V	2~36V				
	OPEN CIRCUIT VOLTAGE (max.)	102V			76V						
	CURRENT RIPPLE Note.6	5.0% max. @r	ated current								
	CURRENT TOLERANCE	±5%									
	AUXILIARY DC OUTPUT	Nominal 12V(de	lominal 12V(deviation 11.4~12.6V)@50mA								
	SETUP TIME Note.3	1000ms / 115VA	С								
		90 ~ 132VAC	127 ~ 186VDC								
	VOLTAGE RANGE Note.2	(Please refer to	STATIC CHARACTE	ERISTIC" section)							
	FREQUENCY RANGE	47 ~ 63Hz									
INPUT	POWER FACTOR (Typ.)	$PF \ge 0.98/115V$ (Please refer to	AC @full load "POWER FACTOR	(PF) CHARACTERISTIC	section)						
	TOTAL HARMONIC DISTORTION	THD< 20%(@lo (Please refer to	,	C DISTORTION(THD)" s	ection)						
	EFFICIENCY (Typ.) Note.4										
	AC CURRENT (Typ.)	0.65A/115VAC									
	INRUSH CURRENT (Typ.)	COLD START 15	5A(twidth=270µs meas	sured at 50% lpeak) at 115V	AC; Per NEMA 410						
	MAX. No. of PSUs on 16A CIRCUIT BREAKER	15 units (circuit breaker of type B) / 25 units (circuit breaker of type C) at 115VAC									
	LEAKAGE CURRENT	<0.5mA/120VAC									
	SHORT CIRCUIT	Constant current limiting, recovers automatically after fault condition is removed									
DOTECTION	OVER VOLTAGE	105 ~ 125V									
PROTECTION		Shutdown o/p voltage, re-power on to recover									
	OVER TEMPERATURE	Shutdown o/p voltage, re-power on to recover									
	DIMMING	Please refer to	"DIMMING OPERA"	TION" section							
FUNCTION	SYNCHRONIZATION	Please refer to	"SYNCHRONIZATI	ON OPERATION" section	า						
	TEMP. COMPENSATION	By external NT	C, please refer to "T	EMPERATURE COMPE	NSATION OPERA	TION"section					
	WORKING TEMP.	Tcase=-30 ~ +90	$^{\circ}\mathrm{C}$ (Please refer to '	OUTPUT LOAD vs TEMF	PERATURE" sectio	n)					
	MAX. CASE TEMP.	Tcase=+90°C									
ENVIRONMENT	WORKING HUMIDITY	20 ~ 90% RH no	n-condensing								
	STORAGE TEMP., HUMIDITY	-40 ~ +80°C , 10									
	TEMP. COEFFICIENT	±0.03%/°C (0~	40℃)								
	VIBRATION	10 ~ 500Hz, 2G	10min./1cycle, perio	d for 60min. each along >	K, Y, Z axes						
	SAFETY STANDARDS	UL8750 approve	ed								
CALETY .	DALI STANDARDS	Comply with IEC	62386-101, 102, 20	7							
SAFETY & EMC	WITHSTAND VOLTAGE	I/P-O/P:3.75KV/	AC								
	ISOLATION RESISTANCE	I/P-O/P:>100M	Ohms / 500VDC / 25	°C/70% RH							
	EMC EMISSION	Compliance to F	CC part 15 Subpart	В							
	MTBF	2648.2K hrs m	in. Telcordia SR	R-332 (Bellcore) ; 222.5	Khrs min. MIL-	-HDBK-217F (25°C)					
OTHERS	DIMENSION	123.5*81.5*23m	,								
PACKING 0.28Kg ; 54pcs/16Kg/1.12CUFT											
NOTE	 De-rating may be needed u Length of set up time is me Efficiency is measured at 7(The driver is considered as complete installation, the fin (as available on https://www It is measured 60%~100% The ambient temperature do 	ally mentioned are measured at 115VAC input, rated current and 25°C of ambient temperature. under low input voltages. Please refer to "STATIC CHARACTERISTIC" sections for details. easured at first cold start. Turning ON/OFF the driver may lead to increase of the set up time. 700mA/72V output set by DIP switch. s a component that will be operated in combination with final equipment. Since EMC performance will be affected by the inal equipment manufacturers must re-qualify EMC Directive on the complete installation again. w.meanwell.com//Upload/PDF/EMI_statement_en.pdf) of maximum voltage under rated power delivery. derating of 3.5°C/1000m with fanless models and of 5°C/1000m with fan models for operating altitude higher than 2000m(6500ft). r : For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx									



50W Multiple-Stage Constant Current Mode LED Driver LCM-60U series

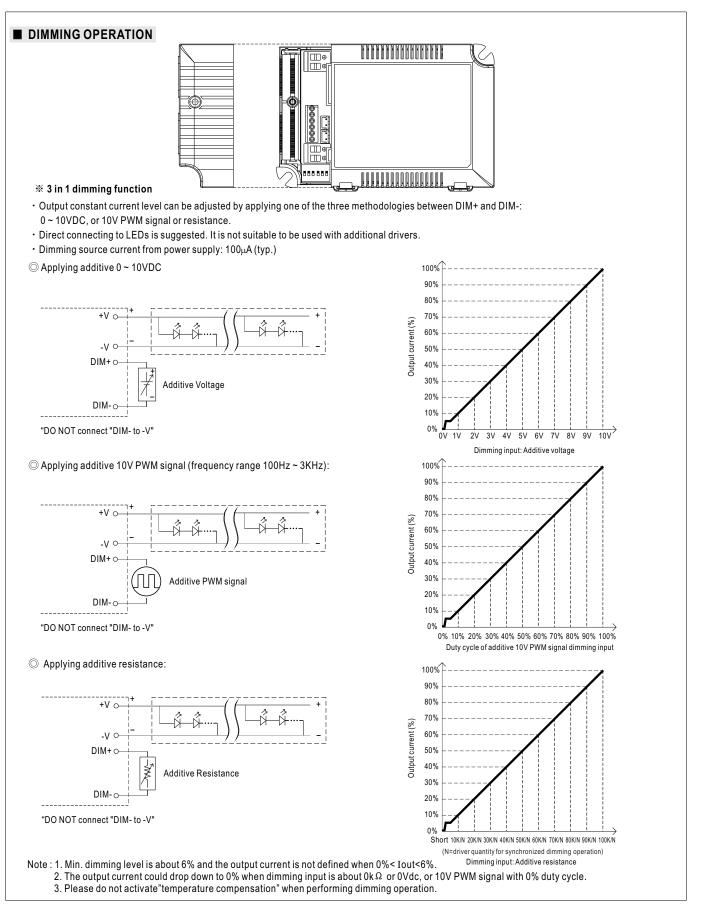


DIP SWITCH TABLE

LCM-60U is a multiple-stage constant current driver, selection of output current through DIP switch is exhibited below.

DIP S.W.	1	2	3	4	5	6
500mA						
600mA	ON					
700mA(factory default)	ON	ON				
900mA	ON	ON	ON			ON
1050mA	ON	ON	ON	ON		ON
1400mA	ON	ON	ON	ON	ON	ON

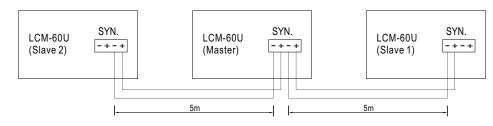






SYNCHRONIZATION OPERATION

- Synchronization up to 10 drivers (1 master + 9 slaves)
- Dimming operating range : 10%~100%
- Sync cable length : < 5m
- Sync cable type : Flat cable
- Sync cable cross section area : 22 24 AWG (0.2~0.3mm²)

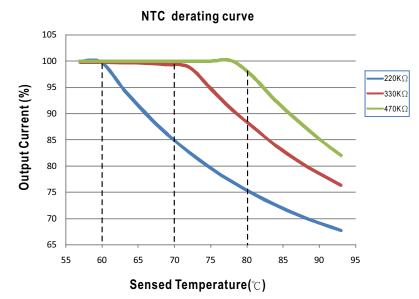


NOTE: 1. Please make sure all units are set to 100% dimming setting (factory default) before synchronizing.

2. Min. Dimming operating range depends on dimmer setting.

■ TEMPERATURE COMPENSATION OPERATION

LCM-60U have the built-in temperature compensation function; by connecting a temperature sensor (NTC resistor) between the +*NTC /-NTC* terminal of LCM-60U and the detecting point on the lighting system or the surrounding environment, output current of LCM-60U could be correspondingly changed, based on the sensed temperature, to ensure the long life of LED.



© LCM-60U can still be operated normally when the NTC resistor is not connected and the value of output current will be the current level selected through the DIP switch.

◎ NTC reference:

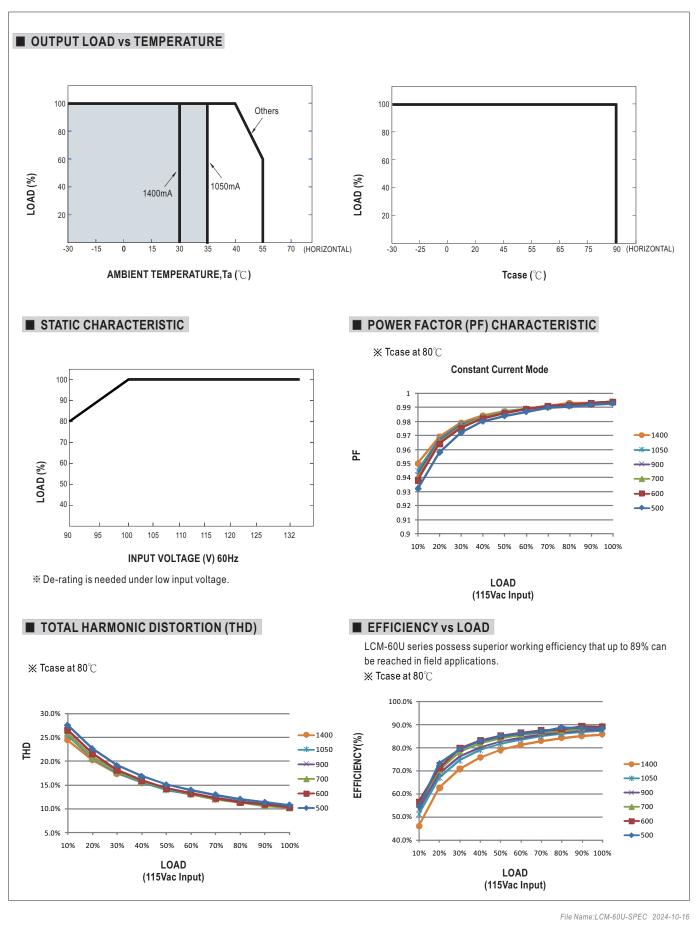
NTC resistance	Output Current
220K	< 60 $^{\circ}$ C, 100% of the rated current (corresponds to the setting current level) > 60 $^{\circ}$ C, output current begins to reduce, please refer to the curve for details.
330K	< 70 $^{\circ}$ C, 100% of the rated current (corresponds to the setting current level) > 70 $^{\circ}$ C, output current begins to reduce, please refer to the curve for details.
470K	< 80°C, 100% of the rated current (corresponds to the setting current level) > 80°C, output current begins to reduce, please refer to the curve for details.

Notes: 1. MEAN WELL does not offer the NTC resistor and all the data above are measured by using THINKING TTC03 series. 2. If other brands of NTC resistor is applied, please check the temperature curve first.

O Dimming and synchronization function of the driver will be invalid when the "temperature compensation" function is in use.



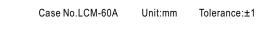
50W Multiple-Stage Constant Current Mode LED Driver LCM-60U series

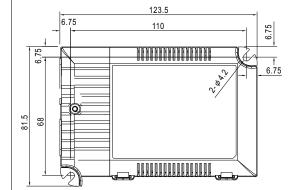


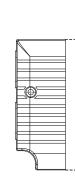


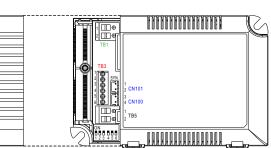
50W Multiple-Stage Constant Current Mode LED Driver LCM-60U series

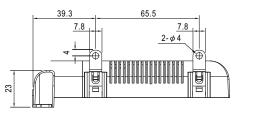
■ MECHANICAL SPECIFICATION

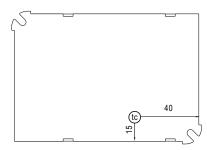












Bottom View
• (10) : Max. Case Temperature

※ Terminal Pin No. Assignment(⊤B1)

Pin No.	Assignment
1	AC/L
2	AC/N

※ Terminal Pin No. Assignment(TB3)

Pin No.	Assignment	Pin No.	Assignment	Pin No.	Assignment
1	+FAN	3	+NTC	5	DIM+
2	-FAN	4	-NTC	6	DIM-

© Pin1(+FAN) / Pin2(-FAN) is the Auxiliary DC output; it can be used to drive fan.

※ Terminal Pin No. Assignment(TB5)

Pin No.Assignment1+V2-V

% SYN. Connector(CN101/CN100):JST B2B-XH or equivalent

Pin No.	Assignment	Mating Housing	Terminal			
1,3	+	JST XHP	JST SXH-001T-P0.6			
2,4	-	or equivalent	or equivalent			





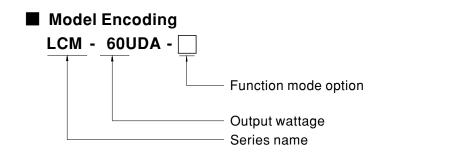




- Constant Current mode output with multiple levels selectable by dip switch
- Plastic housing with class II design
- Built-in active PFC function
- Functions: DALI interface(logarithm or linear dimming curve selectable), push dimming, synchronization up to 10units
- 3 years warranty

Description

LCM-60UDA series is a 50W LED AC/DC constant current mode output LED driver featuring the multiple levels selectable by dip switch and the DALI interface with the compliance to IEC62386-207. LCM-60UDA operates from $90 \sim 132$ VAC and offers different current levels ranging between 350mA and 1050mA. Thanks to the efficiency up to 89%, with the fanless design, the entire series is able to operate for -30° C $\sim +90^{\circ}$ C case temperature under free air convection. In addition, LCM-60UDA is equipped with push dimming and synchronization so as to provide the optimal design flexibility for LED lighting system.



Туре	Function	Note
Blank	DALI and push dimming	In Stock
AUX	DALI and push dimming and Auxiliary DC output	



Applications

- · LED indoor lighting
- LED office lighting
- LED architectural lighting
- LED panel lighting

GTIN CODE

MW Search: https://www.meanwell.com/serviceGTIN.aspx



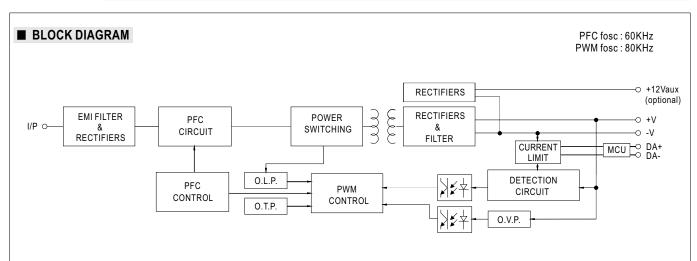
50W Multiple-Stage Constant Current Mode LED Driver **LCM-60UDA** series

SPECIFICATION

MODEL		LCM-60UDA-								
		Current level sel	ectable via DIP swit	ch, please refer to"DIP SV	/ITCH TABLE" sect	tion				
	CURRENT LEVEL	500mA 600mA 700mA(default) 900mA 1050mA 1400mA								
	RATED POWER	50.4W								
ОИТРИТ	DC VOLTAGE RANGE	2~90V	2~84V	2~72V	2~56V	2~48V	2~36V			
001901	OPEN CIRCUIT VOLTAGE (max.)	102V			76V					
	CURRENT RIPPLE Note.6	5.0% max. @ra	ated current		1					
	CURRENT TOLERANCE	±5%								
	AUXILIARY DC OUTPUT		viation 11.4~12.6V)	@50mA for AUX-Type only	V					
	SETUP TIME Note.3		1000ms / 115VAC							
		90 ~ 132VAC	90 ~ 132VAC 127 ~ 186VDC							
	VOLTAGE RANGE Note.2		(Please refer to "STATIC CHARACTERISTIC" section)							
	FREQUENCY RANGE	47 ~ 63Hz	47 ~ 63Hz							
		PF≥0.98/115VAC @full load								
INPUT	POWER FACTOR (Typ.)			(PF) CHARACTERISTIC	" section)					
		THD<20%(@loa	ad≥60%)							
	TOTAL HARMONIC DISTORTION			C DISTORTION(THD)" s	ection)					
	EFFICIENCY (Typ.) Note.4	89%								
	AC CURRENT (Typ.)	0.65A/115VAC								
	INRUSH CURRENT (Typ.)	COLD START 15	A(twidth=270µs meas	sured at 50% Ipeak) at 115V	AC; Per NEMA 410					
	MAX. No. of PSUs on 16A CIRCUIT BREAKER	15 units (circuit breaker of type B) / 25 units (circuit breaker of type C) at 115VAC								
	LEAKAGE CURRENT	<0.5mA/120VAC								
	SHORT CIRCUIT	Constant current limiting, recovers automatically after fault condition is removed								
		105 ~ 125V								
PROTECTION	OVER VOLTAGE	Shutdown o/p voltage, re-power on to recover								
	OVER TEMPERATURE	Shutdown o/p voltage,re-power on to recover								
	DIMMING	Please refer to '	DIMMING OPERA	TION" section						
FUNCTION	SYNCHRONIZATION			ON OPERATION" section	n					
	TEMP. COMPENSATION	By external NTC	C, please refer to "T	EMPERATURE COMPE	NSATION OPERA	TION"section				
	WORKING TEMP.	Tcase=-30 ~ +90	°C (Please refer to '	" OUTPUT LOAD vs TEMF	PERATURE" sectio	n)				
	MAX. CASE TEMP.	Tcase=+90°C								
		20 ~ 90% RH non-condensing								
ENVIRONMENT	STORAGE TEMP., HUMIDITY	-40 ~ +80°C , 10 ~ 95% RH								
	TEMP. COEFFICIENT	±0.03%/°C (0~50°C)								
	VIBRATION	10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes								
	SAFETY STANDARDS	UL8750 approved								
	DALI STANDARDS	Comply with IEC62386-101, 102, 207								
SAFETY &	WITHSTAND VOLTAGE	U/P-0/P:3.75KVAC								
EMC	ISOLATION RESISTANCE			C/70% RH						
	EMC EMISSION	I/P-O/P:>100M Ohms / 500VDC / 25°C / 70% RH Compliance to FCC part 15 Subpart B								
	MTBF	2284.6K hrs min. Telcordia SR-332 (Bellcore) ; 222.5K hrs min. MIL-HDBK-217F (25°C)								
OTHERS	DIMENSION	123.5*81.5*23mm (L*W*H)								
	PACKING	0.28Kg ; 54pcs/16Kg/1.12CUFT								
NOTE	 All parameters NOT special De-rating may be needed u Length of set up time is me Efficiency is measured at 7(The driver is considered as complete installation, the fin (as available on https://www It is measured 60%~100% The ambient temperature di % Product Liability Disclaimer 	nder low input vo asured at first col 00mA/72V output a component tha ial equipment ma v.meanwell.com// of maximum volta erating of 3.5°C/1	Itages. Please refe d start. Turning ON set by DIP switch. t will be operated in nufacturers must re Jpload/PDF/EMI_s ge under rated pov 000m with fanless	r to "STATIC CHARACTE I/OFF the driver may lead n combination with final e qualify EMC Directive o tatement_en.pdf) wer delivery. models and of 5°C/1000	ERISTIC" sections d to increase of the equipment. Since E n the complete ins m with fan models	for details. e set up time. EMC performance will stallation again. for operating altitude				



50W Multiple-Stage Constant Current Mode LED Driver LCM-60UDA series



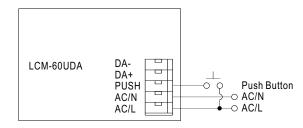
DIP SWITCH TABLE

LCM-60UDA is a multiple-stage constant current driver, selection of output current through DIP switch is exhibited below.

DIP S.W.	1	2	3	4	5	6
500mA						
600mA	ON					
700mA(factory default)	ON	ON				
900mA	ON	ON	ON			ON
1050mA	ON	ON	ON	ON		ON
1400mA	ON	ON	ON	ON	ON	ON



■ DIMMING OPERATION



℁PUSH dimming(primary side)

Action	Action duration	Function
Short push0.1~1 sec.Turn ON-OFF the driverLong push1.5~10 sec.Every Long Push changes the dimn		Turn ON-OFF the driver
		Every Long Push changes the dimming direction, dimming up or down
Reset	>11 sec.	Set up the dimming level to 100%

• The factory default dimming level is at 100%.

• If the push action lasts less than 0.05 sec., it will not lead to a change for the status of the driver.

• Up to 10 drivers can perform the PUSH dimming at the same time when utilizing one common push button.

• The maximum length of the cable from the push button to the last driver is 20 meters.

• The additive push button can be connected only between the PUSH terminal, as displayed in the diagram, and AC/L (in brown or black); it will lead to short circuit if it is connected to AC/N.

*DALI interface(primary side)

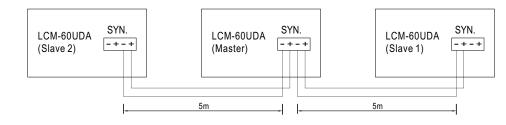
Apply DALI signal between DA+ and DA-

- DALI protocol comprises 16 groups and 64 addresses.
- · First step is fixed at 6% of output.



SYNCHRONIZATION OPERATION

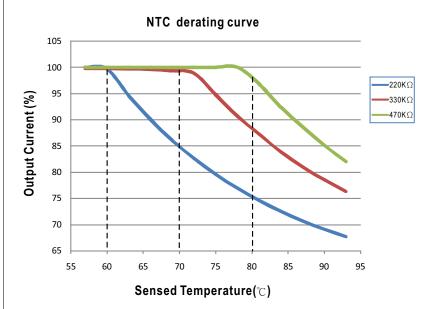
- Synchronization up to 10 drivers (1 master + 9 slaves)
- Dimming operating range : 10%~100%
- Sync cable length : < 5m
- Sync cable type : Flat cable
- Sync cable cross section area : 22 24 AWG (0.2~0.3mm²)



NOTE: 1. Please make sure all units are set to 100% dimming setting (factory default) before synchronizing. 2. Min. Dimming operating range depends on dimmer setting.

■ TEMPERATURE COMPENSATION OPERATION

LCM-60UDA have the built-in temperature compensation function; by connecting a temperature sensor (NTC resistor) between the +*NTC*/-*NTC* terminal of LCM-60UDA and the detecting point on the lighting system or the surrounding environment, output current of LCM-60UDA could be correspondingly changed, based on the sensed temperature, to ensure the long life of LED.



© LCM-60UDA can still be operated normally when the NTC resistor is not connected and the value of output current will be the current level selected through the DIP switch.

○ NTC reference:

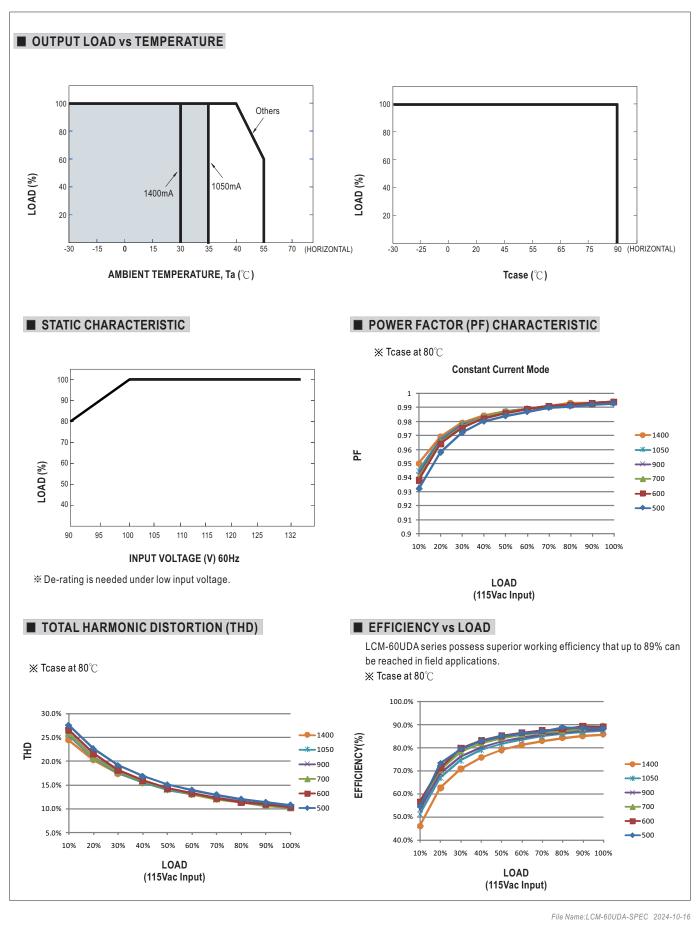
NTC resistance	Output Current
220K	< 60 $^{\circ}$ C, 100% of the rated current (corresponds to the setting current level) > 60 $^{\circ}$ C, output current begins to reduce, please refer to the curve for details.
330K	< 70 $^{\circ}$ C, 100% of the rated current (corresponds to the setting current level) > 70 $^{\circ}$ C, output current begins to reduce, please refer to the curve for details.
470K	< 80°C, 100% of the rated current (corresponds to the setting current level) > 80°C, output current begins to reduce, please refer to the curve for details.

Notes: 1. MEAN WELL does not offer the NTC resistor and all the data above are measured by using THINKING TTC03 series. 2. If other brands of NTC resistor is applied, please check the temperature curve first.

O Dimming and synchronization function of the driver will be invalid when the "temperature compensation" function is in use.



50W Multiple-Stage Constant Current Mode LED Driver **LCM-60UDA** series





6.75

6.75

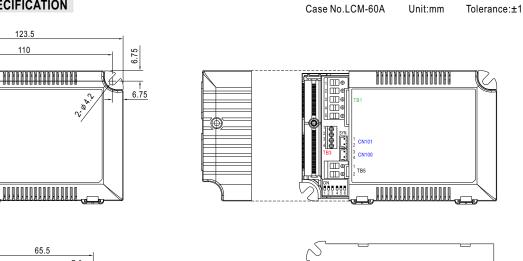
81.5 68

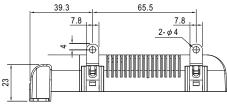
50W Multiple-Stage Constant Current Mode LED Driver LCM-60UDA series

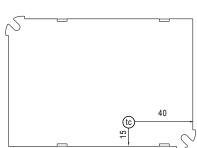
■ MECHANICAL SPECIFICATION

123.5

110







Bottom View • (tc) : Max. Case Temperature

※ Terminal Pin No. Assignment(TB1)

-	· · · · J		- /
Pin No.	Assignment	Pin No.	Assignment
1	1 AC/L		DA+
2 AC/N		5	DA-
3 PUSH			

% Terminal Pin No. Assignment(TB3)

Pin No.	Assignment	Pin No.	Assignment
1 +FAN(optional)		3	+NTC
2	-FAN(optional)	4	-NTC

© Pin1(+FAN) / Pin2(-FAN) is the Auxiliary DC output for the optional model LCM-60UDA-AUX; it can be used to drive fan.

Pin No.	Assignment	
1	+V	
2	-V	

% SYN. Connector(CN101/CN100):JST B2B-XH or equivalent

	· · ·	,	
Pin No.	Assignment	Mating Housing	Terminal
1,3	+	JST XHP	JST SXH-001T-P0.6
2,4	-	or equivalent	or equivalent