































- Ultra slim design with 17.5mm(1SU) width
- Universal input 85~264VAC(277VAC operational)
- No load power consumption<0.3W
- Isolation class ${\mathbb I}$
- Pass LPS (Limited power source)
- DC output voltage adjustable
- · Protections : Short circuit / Overload / Over voltage
- Cooling by free air convection (working temperature:-30~+70°C)
- DIN rail TS-35/7.5 or 15 mountable
- · LED indicator for power on
- 3 years warranty

Applications

- · Household control system
- Building automation
- · Industrial control system
- Factory automation
- Electro-mechanical apparatus

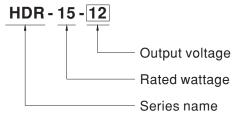
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MW Search: https://www.meanwell.com/serviceGTIN.aspx

Description

HDR-15 is one economical ultra slim 15W DIN rail power supply series, adapt to be installed on TS-35/7.5 or TS-35/15 mounting rails. The body is designed 17.5mm(1SU) in width, which allows space saving inside the cabinets. The entire series adopts the full range AC input from 85VAC to 264VAC (277VAC operational) and conforms to BS EN/EN61000-3-2, the norm the European Union regulates for harmonic current. HDR-15 is designed with plastic housing that it can effectively prevent user from electric hazards. With

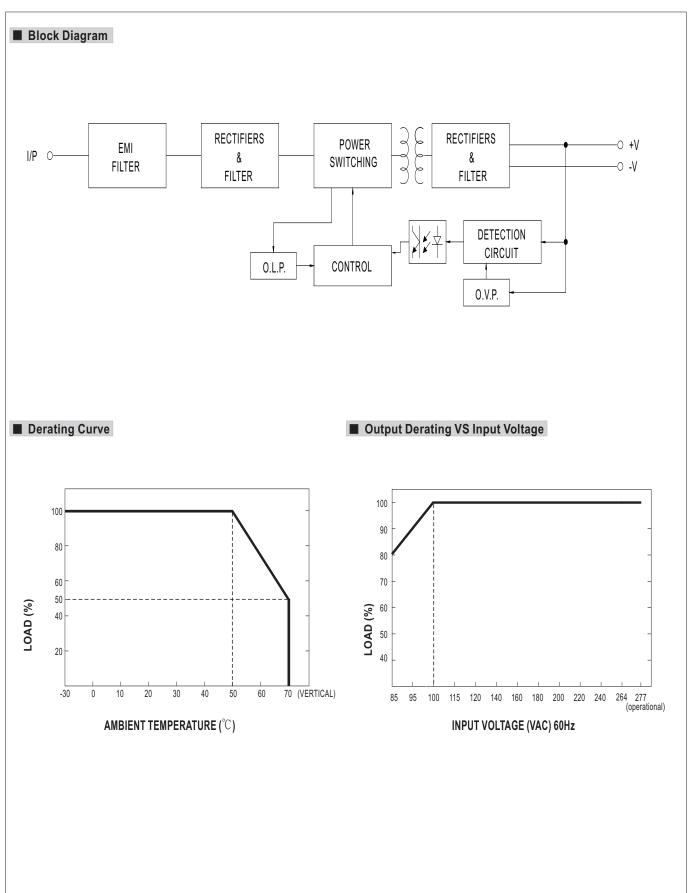
working efficiency up to 87%, the entire series can operate at the ambient temperature between -30 $^{\circ}$ C and 70°C under air convection. The complete protection functions and relevant certificates for home automations and industrial control apparatus (IEC62368-1, UL508, UL62368-1, BS EN/EN61558-2-16) make HDR-15 a very competitive power supply solution for household and industrial applications.





MODEL		HDR-15-5	HDR-15-12	HDR-15-15	HDR-15-24	HDR-15-48		
	DC VOLTAGE	5V	12V	15V	24V	48V		
	RATED CURRENT	2.4A	1.25A	1A	0.63A	0.32A		
	CURRENT RANGE	0 ~ 2.4A	0 ~ 1.25A	0 ~ 1A	0 ~ 0.63A	0 ~ 0.32A		
	RATED POWER	12W	15W	15W	15.2W	15.4W		
	RIPPLE & NOISE (max.) Note.2	80mVp-p	120mVp-p	120mVp-p	150mVp-p	240mVp-p		
OUTPUT	VOLTAGE ADJ. RANGE	4.5 ~ 5.5V	10.8 ~ 13.8V	13.5 ~ 18V	21.6 ~ 29V	43.2 ~ 55.2V		
001101	VOLTAGE TOLERANCE Note.3		±1.0%	±1.0%	±1.0%	±1.0%		
	LINE REGULATION	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%		
	LOAD REGULATION	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%		
		2000ms, 80ms/230VAC	1.11	1 11	_ 1.0 %	⊥ 1.0 /0		
	SETUP, RISE TIME			l Iuli Ioau				
	HOLD UP TIME (Typ.)		s/115VAC at full load	/DO (000)/DO (')	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \			
ŀ	VOLTAGE RANGE	85 ~ 264VAC (277VAC op	perational) 120 ~ 370	/DC (390VDC operational)			
	FREQUENCY RANGE	47 ~ 63Hz		T	T			
NPUT	EFFICIENCY (Typ.)	80%	85%	85.5%	86%	87%		
	AC CURRENT (Typ.)		/230VAC					
	INRUSH CURRENT (Typ.)	COLD START 25A/115VA	AC 45A/230VAC					
		110 ~ 145% rated output	power					
	OVERLOAD	Hiccup mode when out	put voltage <50%, recov	ers automatically after fa	ult condition is removed			
PROTECTION		Constant current limiting	within 50% ~100% rat	ed output voltage, reco	vers automatically after fau	It condition is removed		
		5.75 ~ 6.75V	14.2 ~ 16.2V	18.8 ~ 22.5V	30 ~ 36V	56.5 ~ 64.8V		
	OVER VOLTAGE	Protection type : Shut off	o/p voltage, clamping by z	ener diode	1 11 11			
	WORKING TEMP.	-30 ~ +70°C (Refer to "De						
	WORKING HUMIDITY	20 ~ 90% RH non-conde						
	STORAGE TEMP., HUMIDITY	-40 ~ +85°C, 10 ~ 95% R						
NVIRONMENT	TEMP. COEFFICIENT							
INVIKONWENT	VIBRATION	±0.03%/°C (0 ~ 50°C) RH non-condensing 10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes; Mounting: Compliance to IEC60068-2-6						
	OPERATING ALTITUDE	2000 meters						
		Ⅲ ; According to EN61558, EN50178, EN60664-1, EN62477-1 ; altitude up to 2000 meters						
	OVER VOLTAGE CATEGORY			•	-	MI ONICATION 4 annual		
	SAFETY STANDARDS	Design refer to TUV BS E		5 EN/EN01558-1, IEC623	68-1, EAC TP TC 004, BS	MI CNS 15598-1 approve		
	WITHSTAND VOLTAGE	I/P-O/P:4KVAC	17/2/10/2000					
	ISOLATION RESISTANCE	I/P-O/P:100M Ohms / 500	N/DC / 25°C / 700/ DU					
	IOOLATION NESIGNANCE		Standard		Test Level / Note			
		Parameter						
	EMO EMICCION	Conducted		2(CISPR32), CNS15936	Class B			
	EMC EMISSION	Radiated		2(CISPR32), CNS15936	Class B			
		Harmonic Current	BS EN/EN61000					
SAFETY &		Voltage Flicker	BS EN/EN61000					
EMC		BS EN/EN55035, BS EN/		51204-3				
(Note 4)		Parameter	Standard		Test Level /Note			
		ESD	BS EN/EN61000	-	Level 3, 8KV air; Level 2, 4KV contact, criteri			
		Radiated Susceptibility	BS EN/EN61000	0-4-3	Level 3, criteria A			
	EMC IMMUNITY	EFT/Burest	BS EN/EN6100	0-4-4	Level 3, criteria A			
		Surge	BS EN/EN6100	0-4-5	Level 4,2KV/L-N, crite	eria A		
		Conducted	BS EN/EN6100	0-4-6	Level 3, criteria A			
		Magnetic Field	BS EN/EN6100	0-4-8	Level 4, criteria A			
		Voltage Dips and interrup	tions BS EN/EN6100	0-4-11	>95% interruptions 2			
	MTBF		lcordia SR-332 (Bellcor	e); 1166.1K hrs min.	MIL-HDBK-217F (25°C)		
OTHERS	DIMENSION	17.5*90*54.5mm (W*H*D)					
[PACKING	74g;160pcs/12.9Kg/1.09						
NOTE	All parameters NOT specially Ripple & noise are measurer Tolerance: includes set up to The power supply is consided directives. For guidance on load (as available on https://www. The ambient temperature dewords	d at 20MHz of bandwidth plerance, line regulation a red as an independent ur now to perform these EM meanwell.com//Upload/PI rating of 3.5°C/1000m wit	by using a 12" twisted pand load regulation. nit, but the final equipmen C tests, please refer to "E DF/EMI_statement_en.pd h fanless models and of the	ir-wire terminated with a t still need to re-confirm to MI testing of component f).	0.1 μ F & 47 μ F parallel on the whole system compower supplies."	nplies with the EMC		

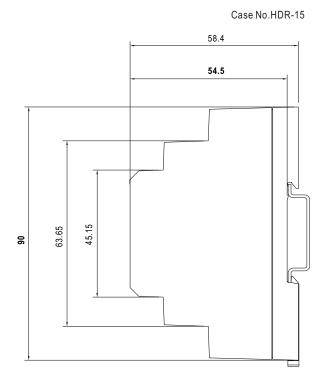


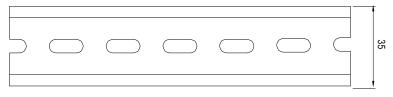




(Unit: mm, tolerance ± 0.5mm)







ADMISSIBLE DIN-RAIL:TS35/7.5 OR TS35/15

Terminal Pin No. Assignment

		,	
Pin No.	Assignment	Pin No.	Assignment
1	+V	3	AC/N
2	-V	4	AC/L

■ Installation Manual

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



































- Ultra slim design with 35mm(2SU) width
- Universal input 85~264VAC(277VAC operational)
- No load power consumption<0.3W
- Isolation class ${\mathbb I}$
- · Pass LPS (Limited power source)
- DC output voltage adjustable
- · Protections : Short circuit / Overload / Over voltage
- Cooling by free air convection (working temperature:-30~+70°C)
- DIN rail TS-35/7.5 or 15 mountable
- · LED indicator for power on
- 3 years warranty

Applications

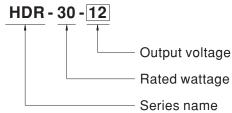
- · Household control system
- Building automation
- · Industrial control system
- Factory automation
- · Electro-mechanical apparatus

GTIN CODE

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Description

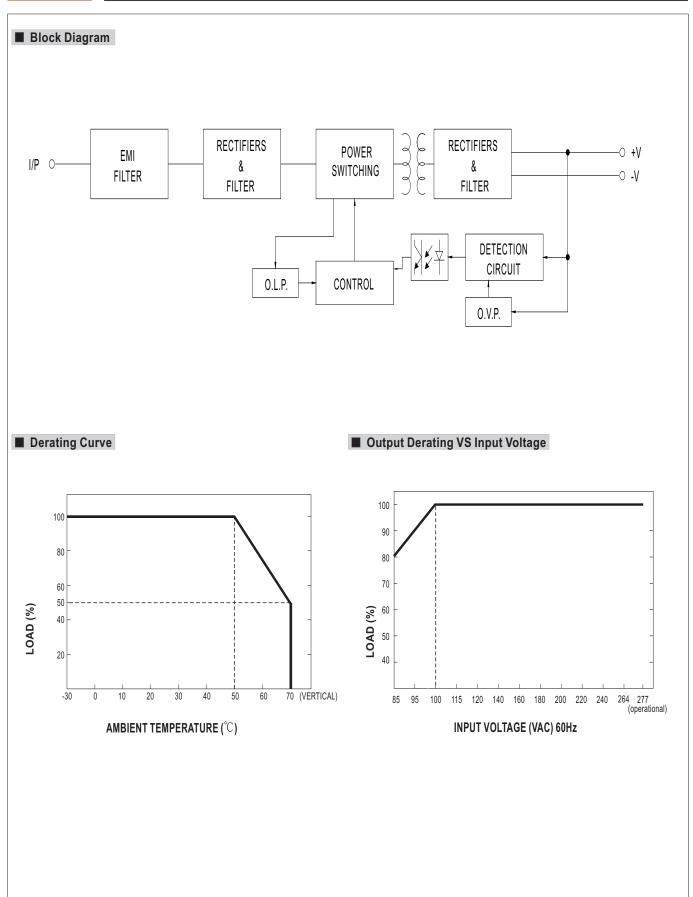
HDR-30 is one economical ultra slim 30W DIN rail power supply series, adapt to be installed on TS-35/7.5 or TS-35/15 mounting rails. The body is designed 35mm(2SU) in width, which allows space saving inside the cabinets. The entire series adopts the full range AC input from 85VAC to 264VAC(277VAC operational) and conforms to BS EN/EN61000-3-2, the norm the European Union regulates for harmonic current. HDR-30 is designed with plastic housing that it can effectively prevent user from electric hazards. With working efficiency up to 90%, the entire series can operate at the ambient temperature between -30°C and 70°C under air convection. The complete protection functions and relevant certificates for home automations and industrial control apparatus (IEC62368-1, UL508,UL62368-1, BS EN/EN61558-2-16) make HDR-30 a very competitive power supply solution for household and industrial applications.



30W Ultra Slim Step Shape DIN Rail

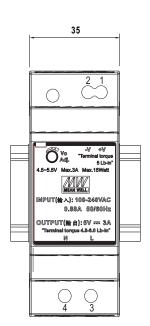
MODEL		HDR-30-5	HDR-30-12	HDR-30-15	HDR-30-24	HDR-30-48			
	DC VOLTAGE	5V	12V	15V	24V	48V			
	RATED CURRENT	3A	2A	2A	1.5A	0.75A			
	CURRENT RANGE	0 ~ 3A	0 ~ 2A	0 ~ 2A	0 ~ 1.5A	0 ~ 0.75A			
	RATED POWER	15W	24W	30W	36W	36W			
	RIPPLE & NOISE (max.) Note.2	80mVp-p	120mVp-p	120mVp-p	150mVp-p	240mVp-p			
OUTPUT	VOLTAGE ADJ. RANGE	4.5 ~ 5.5V	10.8 ~ 13.8V	13.5 ~ 18V	21.6 ~ 29V	43.2 ~ 55.2V			
	VOLTAGE TOLERANCE Note.3	±2.0%	±1.0%	±1.0%	±1.0%	±1.0%			
	LINE REGULATION	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%			
	LOAD REGULATION	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%			
	SETUP, RISE TIME	500ms, 50ms/230VAC	500ms, 50ms/115VAC	at full load					
	HOLD UP TIME (Typ.)	30ms/230VAC 12ms/	115VAC at full load						
	VOLTAGE RANGE	85 ~ 264VAC (277VAC ope	erational) 120 ~ 370\	/DC (390VDC operational)					
	FREQUENCY RANGE	47 ~ 63Hz							
INPUT	EFFICIENCY (Typ.)	82%	88%	89%	89%	90%			
	AC CURRENT (Typ.)	0.88A/115VAC 0.48A	V230VAC						
	INRUSH CURRENT (Typ.)	COLD START 25A/115VA	C 45A/230VAC						
		105 ~ 160% rated output p	oower						
	OVERLOAD			ers automatically after fau	ult condition is removed				
PROTECTION			•	ed output voltage, recov		It condition is removed			
		5.75 ~ 7.5V	15 ~ 18V	18.8 ~ 22.5V	30 ~ 36V	57.6~ 67.2V			
	OVER VOLTAGE	Protection type : Shut dow	n o/p voltage, re-power o	n to recover	I .				
	WORKING TEMP.	•	-30 ~ +70°C (Refer to "Derating Curve")						
	WORKING HUMIDITY	20 ~ 90% RH non-conden	, , , , , , , , , , , , , , , , , , ,						
	STORAGE TEMP., HUMIDITY	-40 ~ +85°C, 10 ~ 95% RH non-condensing							
ENVIRONMENT	TEMP. COEFFICIENT	$\pm 0.03\%$ °C (0 ~ 50 °C) RH non-condensing							
LITTINONIILITT	VIBRATION	10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes; Mounting: Compliance to IEC60068-2-6							
	OPERATING ALTITUDE	2000 meters							
	OVER VOLTAGE CATEGORY	Ⅲ ; According to EN61558, EN50178, EN60664-1, EN62477-1; altitude up to 2000 meters							
	SAFETY STANDARDS	UL62368-1, UL508, TUV BS EN/EN61558-2-16, BS EN/EN61558-1, IEC62368-1, EAC TP TC 004, BSMI CNS15598-1 approved; Design refer to TUV BS EN/EN62368-1							
	WITHSTAND VOLTAGE	I/P-O/P:4KVAC							
	ISOLATION RESISTANCE	I/P-O/P:100M Ohms / 500VDC / 25°C / 70% RH							
		Parameter	Standard		Test Level / Note				
		Conducted	BS EN/EN5503	2(CISPR32), CNS15936	Class B				
	EMC EMISSION	Radiated	BS EN/EN5503	2(CISPR32), CNS15936	Class B				
		Harmonic Current	BS EN/EN6100	0-3-2	Class A				
SAFETY &		Voltage Flicker	BS EN/EN6100						
EMC		BS EN/EN55035, BS EN/		61204-3					
(Note 4)		Parameter	Standard		Test Level /Note				
		ESD	BS EN/EN6100			el 2, 4KV contact, criteria			
		Radiated Susceptibility	BS EN/EN6100		Level 3, criteria A				
	EMC IMMUNITY	EFT/Burest	BS EN/EN6100		Level 3, criteria A	and A			
		Surge	BS EN/EN610		Level 4,2KV/L-N, crit	eria A			
		Conducted	BS EN/EN6100		Level 3, criteria A				
		Magnetic Field	BS EN/EN610		Level 4, criteria A	ds, 30% dip 25 periods,			
	MTBF	Voltage Dips and interruption 3670.4K hrs min.		00-4-11 	>95% interruptions	250 periods			
OTHERS	DIMENSION	35*90*54.5mm (W*H*D)	GIGGI GIA GIA-332 (DEI	10016), 300. 11 1115 111111	. WIL-HOUK-Z1/F	(200)			
OTHER9		,	ACHET						
	PACKING	0.13Kg;96pcs/14.2Kg/1.04		1 10500 : ::					
NOTE	All parameters NOT special Ripple & noise are measure Tolerance: includes set up: The power supply is considinferctives. For guidance on (as available on https://www.b. The ambient temperature downwords. Product Liability Disclaimer	d at 20MHz of bandwidth lolerance, line regulation are das an independent un how to perform these EMC meanwell.com//Upload/PE erating of 3.5°C/1000m with	by using a 12" twisted p. nd load regulation. it, but the final equipmer c tests, please refer to "E DF/EMI_statement_en.po n fanless models and of	air-wire terminated with a one still need to re-confirm the testing of component of the still of	0.1 μ F & 47 μ F parallel of the whole system concower supplies."	nplies with the EMC			
	I					ame:HDR-30-SPEC 20			

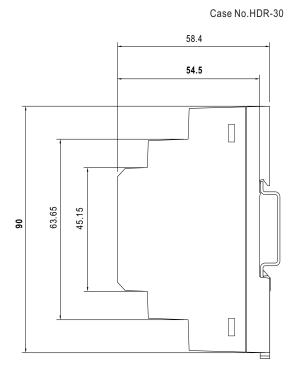


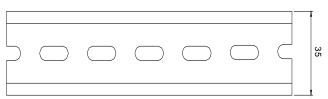




(Unit: mm, tolerance ± 0.5mm)







ADMISSIBLE DIN-RAIL:TS35/7.5 OR TS35/15

Terminal Pin No. Assignment

Pin No.	Assignment	Pin No.	Assignment
1	+V	3	AC/L
2	-V	4	AC/N

■ Installation Manual

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

















60W Ultra Slim Step Shape DIN Rail





















Features

- Ultra slim design with 52.5mm(3SU) width
- Universal input 85~264VAC(277VAC operational)
- No load power consumption<0.3W
- Isolation class ${\mathbb I}$
- Pass LPS (Limited power source)
- · DC output voltage adjustable
- · Protections : Short circuit / Overload / Over voltage
- Cooling by free air convection (working temperature:-30~+70°C)

supply solution for household and industrial applications.

- DIN rail TS-35/7.5 or 15 mountable
- · LED indicator for power on
- · 3 years warranty

Applications

- Household control system
- · Building automation
- Industrial control system
- Factory automation
- · Electro-mechanical apparatus

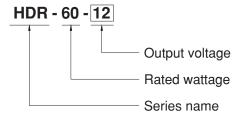
GTIN CODE

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Description

HDR-60 is one economical ultra slim 60W DIN rail power supply series, adapt to be installed on TS-35/7.5 or TS-35/15 mounting rails. The body is designed 52.5mm(3SU) in width, which allows space saving inside the cabinets. The entire series adopts the full range AC input from 85VAC to 264VAC (277VAC operational) and conforms to BS EN/EN61000-3-2, the norm the European Union regulates for harmonic current. HDR-60 is designed with plastic housing that it can effectively prevent user from electric hazards. With working efficiency up to 91%, the entire series can operate at the ambient temperature between -30°C and 70°C under air convection. The complete protection functions and relevant certificates for home automations and industrial

control apparatus (IEC62368-1, UL508, UL62368-1, BS EN/EN61558-2-16) make HDR-60 a very competitive power



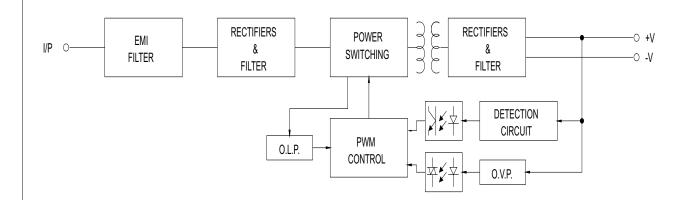


60W Ultra Slim Step Shape DIN Rail

MODEL		HDR-60-5	HDR-60-12	HDR-60-15	HDR-60-24	HDR-60-48		
	DC VOLTAGE	5V	12V	15V	24V	48V		
	RATED CURRENT	6.5A	4.5A	4A	2.5A	1.25A		
	CURRENT RANGE	0 ~ 6.5A	0 ~ 4.5A	0 ~ 4A	0 ~ 2.5A	0 ~ 1.25A		
	RATED POWER	32.5W	54W	60W	60W	60W		
	RIPPLE & NOISE (max.) Note.2	80mVp-p	120mVp-p	120mVp-p	150mVp-p	240mVp-p		
OUTPUT	VOLTAGE ADJ. RANGE	5.0 ~ 5.5V	10.8 ~ 13.8V	13.5 ~ 18V	21.6 ~ 29V	43.2 ~ 55.2V		
001101	VOLTAGE TOLERANCE Note.3	±2.0%	±1.0%	±1.0%	±1.0%	±1.0%		
	LINE REGULATION	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%		
	LOAD REGULATION	±1.0%	±1.0%	±1.0%	±1.0%	±1.0%		
	SETUP, RISE TIME	500ms. 50ms/230VAC	500ms, 50ms/115VAC at		⊥ 1.076	1.0 %		
	HOLD UP TIME (Typ.)		115VAC at full load	Iuli loau				
	() . ,			DC (200)/DCtional				
	VOLTAGE RANGE	85 ~ 264VAC (277VAC op	120 ~ 370V	DC (390VDC operational)				
INDUT	FREQUENCY RANGE	47 ~ 63Hz	000/	000/	000/	0.407		
INPUT	EFFICIENCY (Typ.)	85%	88%	89%	90%	91%		
	AC CURRENT (Typ.)		30VAC					
	INRUSH CURRENT (Typ.)	COLD START 30A/115VA	C 60A/230VAC					
		105 ~ 160% rated output p						
	OVERLOAD		•	ers automatically after fa				
PROTECTION				ed output voltage, recov				
	OVER VOLTAGE	5.75 ~ 6.75V	14.2 ~ 16.2V	18.8 ~ 22.5V	30 ~ 36V	56.5 ~ 64.8V		
	OVER VOLINGE	71	n o/p voltage, re-power on	to recover				
	WORKING TEMP.	-30 ~ +70°C (Refer to "De	3 - 1 /					
	WORKING HUMIDITY	20 ~ 90% RH non-conden	sing					
ENVIRONMENT	STORAGE TEMP., HUMIDITY	-40 ~ +85°C, 10 ~ 95% R⊦	H non-condensing					
	TEMP. COEFFICIENT	$\pm 0.03\%$ /°C (0 ~ 50°C) RH non-condensing						
	VIBRATION	10 ~ 500Hz, 2G 10min./1c	cycle, period for 60min. eacl	along X, Y, Z axes; Mounti	ng: Compliance to IEC6006	8-2-6		
	OPERATING ALTITUDE	2000 meters						
	OVER VOLTAGE CATEGORY	III ; According to EN61	le up to 2000 meters					
	SAFETY STANDARDS	UL62368-1, UL508, TUV BS EN/EN61558-2-16, BS EN/EN61558-1, IEC62368-1, EAC TP TC 004, BSMI CNS15598-1, BIS IS13252(Part1): 2010/IEC 60950-1:2005(NOTE 6) approved; Design refer to BS EN/EN62368-1						
	WITHSTAND VOLTAGE	I/P-O/P:4KVAC						
	ISOLATION RESISTANCE	I/P-O/P:100M Ohms / 500VDC / 25°C / 70% RH						
		Parameter	Standard		Test Level / Note			
		Conducted		2(CISPR32), CNS15936	Class B			
	EMC EMISSION	Radiated		2(CISPR32), CNS15936	Class B			
	LING LINISSION	Harmonic Current	BS EN/EN6100	(),	Class A			
					Class A			
SAFETY &		Voltage Flicker BS EN/EN61000-3-3 BS EN/EN55035, BS EN/EN61000-6-2, BS EN/EN61204-3						
EMC				01204-3	Took Lovel /Note			
(Note 4)		Parameter	Standard		Test Level /Note	10.40/		
, ,		ESD	BS EN/EN6100			el 2, 4KV contact, criteria		
		Radiated Susceptibility	BS EN/EN6100		Level 3, criteria A			
	EMC IMMUNITY	EFT/Burest	BS EN/EN6100		Level 3, criteria A			
		Surge	BS EN/EN6100	10-4-5	Level 4,2KV/L-N, crit	eria A		
		Conducted	BS EN/EN6100	0-4-6	Level 3, criteria A			
		Magnetic Field	BS EN/EN6100	0-4-8	Level 4, criteria A			
		Voltage Dips and interrup	tions BS EN/EN610	00-4-11	>95% dip 0. 5 perio >95% interruptions	ds, 30% dip 25 periods, 250 periods		
	MTBF	3524.8K hrs min. Te	lcordia SR-332 (Bellcor	e); 927.6K hrs min.	// MIL-HDBK-217F (25°C)			
OTHERS	DIMENSION	52.5*90*54.5mm (W*H*D)						
	PACKING	190g;60pcs/13Kg/0.91CUI	FT					
NOTE	All parameters NOT special Ripple & noise are measure Tolerance : includes set up The power supply is conside EMC directives. For guidant (as available on https://www. The ambient temperature of the Some model may not have	ed at 20MHz of bandwidth tolerance, line regulation a ered a component which were on how to perform these meanwell.com//Upload/Perating of 3.5°C/1000m wi	by using a 12" twisted pand load regulation. will be installed into a finate EMC tests, please reference. DF/EMI_statement_en.pd th fanless models and of act your MEAN WELL sa	air-wire terminated with a equipment. The final equipment of composition of compo	0.1 μ F & 47 μ F parallel of the parallel	med that it still meets		
			, ,					



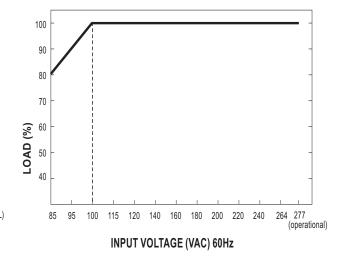
■ Block Diagram



■ Derating Curve

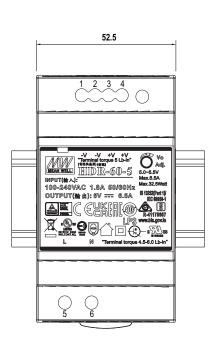
100 80 60 50 40 20 -30 0 10 20 30 40 50 60 70 (VERTICAL) AMBIENT TEMPERATURE (?)

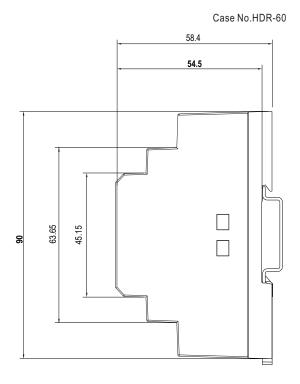
■ Output Derating VS Input Voltage

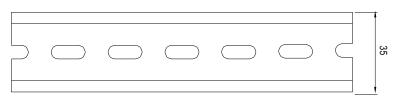




(Unit: mm, tolerance ± 0.5mm)







ADMISSIBLE DIN-RAIL:TS35/7.5 OR TS35/15

Terminal Pin No. Assignment

		<u>'</u>	
Pin No.	Assignment	Pin No.	Assignment
1,2	-V	5	AC/L
3,4	+V	6	AC/N

■ Installation Manual

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































- · Ultra slim design with 70mm(4SU) width
- Universal input 85~264VAC(277VAC operational)
- No load power consumption<0.3W
- Isolation class ${
 m II}$
- · Pass LPS (Limited power source) for Blank type
- DC output voltage adjustable
- · Protections : Short circuit / Overload / Over voltage
- Cooling by free air convection (working temperature:-30~+70°C)
- DIN rail TS-35/7.5 or 15 mountable
- · LED indicator for power on
- 3 years warranty

Applications

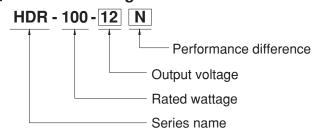
- · Household control system
- Building automation
- · Industrial control system
- Factory automation
- Electro-mechanical apparatus

GTIN CODE

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

Description

HDR-100 is one economical ultra slim 100W DIN rail power supply series, adapt to be installed on TS-35/7.5 or TS-35/15 mounting rails. The body is designed 70mm(4SU) in width, which allows space saving inside the cabinets. The entire series adopts the full range AC input from 85VAC to 264VAC(277VAC operational) and conforms to BS EN/EN61000-3-2, the norm the European Union regulates for harmonic current. HDR-100 is designed with plastic housing that it can effectively prevent user from electric hazards. With working efficiency up to 90%, the entire series can operate at the ambient temperature between -30°C and 70°C under air convection. The complete protection functions and relevant certificates for home automations and industrial control apparatus (IEC62368-1, UL508, UL62368-1, BS EN/EN61558-2-16) make HDR-100 a very competitive power supply solution for household and industrial applications.



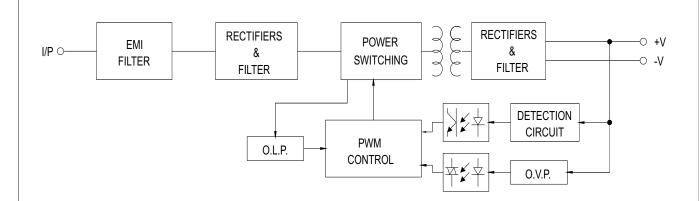
Туре	Description	Note
Blank	92W max, Pass LPS with a narrower output adjustable range	In stock
N	100W max, Non-LPS with a wider output adjustable range	In stock



MODEL			HDR-100-12	HDR-100-12N	HDR-100-15	HDR-100-15N	HDR-100-24	HDR-100-24N	HDR-100-48	HDR-100-481
	DC VOLTAGE		12V		15V		24V		48V	
	RATED CURREN	IT	7.1A	7.5A	6.13A	6.5A	3.83A	4.2A	1.92A	2.1A
	CURRENT RANG	E	0 ~ 7.1A	0 ~ 7.5A	0 ~ 6.13A	0 ~ 6.5A	0 ~ 3.83A	0 ~ 4.2A	0~1.92A	0 ~ 2.1A
	RATED POWER		85.2W	90W	92W	97.5W	92W	100.8W	92.2W	100.8W
	RIPPLE & NOISE	(max.) Note.2	120mVp-p		120mVp-p		150mVp-p		240mVp-p	<u> </u>
OUTPUT	VOLTAGE ADJ.	Pass LPS	12 ~ 13V		15 ~ 17V		24 ~ 25.5V		48 ~ 48.7V	
	RANGE	Non LPS	12~ 13.8V		13.5 ~ 18V		21.6 ~ 29V		43.2 ~ 55.2V	
	VOLTAGE TOLER	RANCE Note.3	±2.0%		±1.0%		±1.0%		±1.0%	
	LINE REGULATION	ON	±1.0%		±1.0%		±1.0%		±1.0%	
	LOAD REGULAT	ION	±1.0%		±1.0%		±1.0%		±1.0%	
	SETUP, RISE TIM	ΛE	500ms, 60ms/2	30VAC 500n	ns, 60ms/115VA	C at full load				
	HOLD UP TIME (Тур.)	30ms/230VAC	12ms/115VAC	at full load					
	VOLTAGE RANG	Ε	85 ~ 264VAC (277VAC operation	al) 120 ~ 3	70VDC (390VDC	coperational)			
	FREQUENCY RA	NGE	47 ~ 63Hz							
INPUT	EFFICIENCY (Typ	p.)	88%		89%		90%		90%	
	AC CURRENT (T	yp.)	3A/115VAC	1.6A/230VAC					•	
	INRUSH CURRE	NT (Typ.)	COLD START	35A/115VAC	70A/230VAC					
			HDR-100 : 102	~ 110% rated out	out power ; HDR	-100-xxN : 105 ~	150% rated outp	ut power		
PROTECTION	OVERLOAD							condition is remosation		is removed
			14.2 ~ 16.2V	•	18.8 ~ 22.5V		30 ~ 36V	·	56.5 ~ 64.8V	
	OVER VOLTAGE		Protection type	: Shut down o/p v	oltage, re-power	on to recover				
	WORKING TEMP).	-30 ~ +70°C (R	efer to "Derating (Curve")					
	WORKING HUMI	DITY	20 ~ 90% RH n	on-condensing	,					
	STORAGE TEMP	P., HUMIDITY	-40 ~ +85°C, 1	0 ~ 95% RH non-co	ondensing					
ENVIRONMENT	TEMP. COEFFIC	IENT	±0.03%/°C (0	~ 50°C) RH non-c	ondensing					
	VIBRATION		10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes; Mounting: Compliance to IEC60068-2-6							
	OPERATING A	LTITUDE	2000 meters							
	OVER VOLTAGE	E CATEGORY	III ; According to EN61558, EN50178, EN60664-1, EN62477-1 ; altitude up to 2000 meters							
	SAFETY STAND	ARDS	UL62368-1, UL508, TUV BS EN/EN61558-2-16, BS EN/EN61558-1, IEC62368-1, EAC TP TC 004, BSMI CNS15598-1 approved; Design refer to TUV BS EN/EN62368-1							
	WITHSTAND VO	LTAGE	I/P-O/P:4KVAC							
	ISOLATION RES	ISTANCE	I/P-O/P:100M (Ohms / 500VDC / 2	25°C / 70% RH					
			Parameter	ter Standard			Test Level / Note			
			Conducted		BS EN/EN55032(CISPR32), CNS15936		CNS15936	Class B		
	EMC EMISSION	EMC EMISSION			BS EN/EN5	5032(CISPR32),	CNS15936	Class B		
				ent (Note 5)	BS EN/EN61000-3-2			Class A		
SAFETY &			Voltage Flicker		BS EN/EN61000-3-3					
EMC (Note 5)			BS EN/EN5503	5, BS EN/EN610	00-6-2, BS EN/I	EN61204-3				
(Note 5)			Parameter		Standard	Standard		Test Level /Note		
			ESD		BS EN/EN6	1000-4-2		Level 3, 8KV ai	r; Level 2, 4KV o	ontact, criteria
			Radiated Susce	eptibility	BS EN/EN6	BS EN/EN61000-4-3		Level 3, criteria A		
	EMC IMMUNITY	,	EFT/Burest		BS EN/EN6	1000-4-4		Level 3, criteria	a A	
			Surge		BS EN/EN6	31000-4-5		Level 4,2KV/L-	N, criteria A	
			Conducted		BS EN/EN6	1000-4-6		Level 3, criteria	a A	
			Magnetic Field		BS EN/EN6	51000-4-8		Level 4, criteria	a A	
			Voltage Dips a	ips and interruptions BS EN/EN61000-4-11					5 periods, 30% d otions 250 period	
	MTBF		3271.9K hrs	min. Telcord	ia SR-332 (Be	ellcore) ; 856.5k	K hrs min.	/IL-HDBK-217	F (25°C)	
OTHERS	DIMENSION		70*90*54.5mm	(W*H*D)						
	PACKING		0.27Kg; 48pc	cs/13.74Kg/0.96	6CUFT					
NOTE	2. Ripple & nois 3. Tolerance: in 4. Harmonic cur 5. The power su directives. For	e are measure cludes set up rent test at 90' upply is consider guidance on l	ed at 20MHz of tolerance, line ro % load for HDR ered as an inde now to perform	bandwidth by usi egulation and loa -100-xxN. pendent unit, but these EMC tests	ng a 12" twiste d regulation. the final equip , please refer to	ment still need to	nated with a 0.1 re-confirm that	μ F & 47 μ F pa	·	the EMC
		temperature de	erating of 3.5° C	1000m with fank	ess models and	.par) Fof 5°C/1000m v //www.meanwell.		for operating altit	tude higher thar	2000m(65

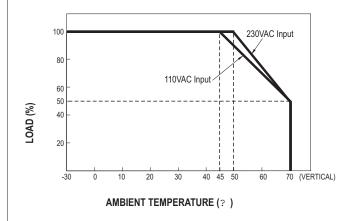


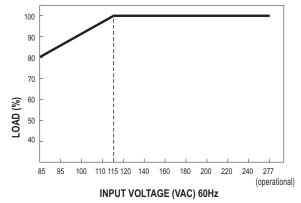
■ Block Diagram



■ Derating Curve VS Ambient Temperature

■ Output Derating VS Input Voltage

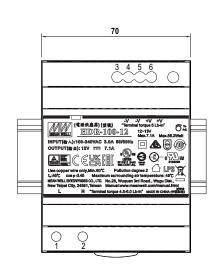


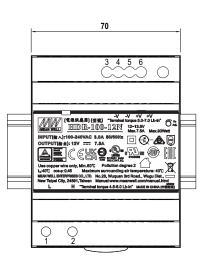


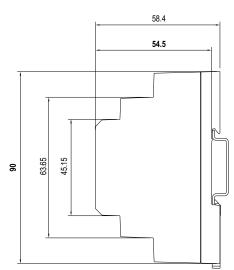


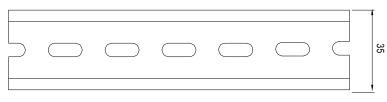
(Unit: mm , tolerance ± 0.5mm)

Case No.HDR-15









ADMISSIBLE DIN-RAIL:TS35/7.5 OR TS35/15

Terminal Pin No. Assignment

Pin No.	Assignment	Pin No.	Assignment
1	AC/L	3,4	-V
2	AC/N	5,6	+V

■ Installation Manual

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

































- · Ultra slim design with 105mm(6SU) width
- Universal input 85~264VAC(277VAC operational)
- No load power consumption<0.3W
- Isolation class ${\mathbb I}$
- · DC output voltage adjustable
- · Protections : Short circuit / Overload / Over voltage
- Cooling by free air convection
- DIN rail TS-35/7.5 or 15 mountable
- Over voltage category III
- · LED indicator for power on
- 3 years warranty

■ Applications

- · Household control system
- Building automation
- · Industrial control system
- Factory automation
- · Electro-mechanical apparatus

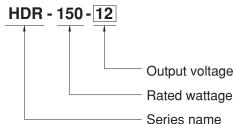
■ GTIN CODE

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

Description

HDR-150 is an economical ultra slim 150W DIN rail power supply series, adapt to be installed on TS-35/7.5 or TS-35/15 mounting rails. The body is designed 105mm(6SU) in width, which allows space saving inside the cabinets. The entire series adopts the full range AC input from 85VAC to 264VAC(277VAC operational) and conforms to BS EN/EN61000-3-2, the norm the European Union regulates for harmonic current.

HDR-150 is designed with plastic housing that it can effectively prevent user from electric hazards. With working efficiency up to 90.5%, the entire series can operate at the ambient temperature between -30°C and 70°C under air convection. The complete protection functions and relevant certificates for home automations and industrial control apparatus (IEC62368-1,UL62368-1,UL61010, BS EN/EN61558-2-16) make HDR-150 a very competitive power supply solution for household and industrial applications.

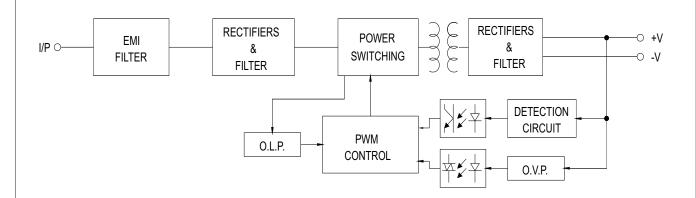




MODEL			HDR-150-12	HDR-150-15	HDR-150-24		HDR-150-48	
	DC VOLTAGE		12V	15V	24V		48V	
	20102102	115VAC	10.2A	8.55A	5.31A		2.72A	
RATED CURRENT 230V				9.5A	6.25A		3.2A	
		115VAC		128.3W	127.4W		130.6W	
	RATED POWER	230VAC	135.6W	142.5W	150W		153.6W	
	RIPPLE & NOISE (ma			120mVp-p	150mVp-p		200mVp-p	
OUTPUT	VOLTAGE ADJ. RAN		10.8~ 13.8V	13.5 ~ 18V	21.6 ~ 29V		43.2 ~ 55.2V	
	VOLTAGE TOLERAN		1.0.00/	±1.0%	±1.0%		±1.0%	
	LINE REGULATION		±1.0%	±1.0%	±1.0%		±1.0%	
	LOAD REGULATION		±1.0%	±1.0%	±1.0%		±1.0%	
	SETUP, RISE TIME		111	500ms, 60ms/115VAC at full le			1 - 110 //	
	HOLD UP TIME (Typ.)		5VAC at full load				
	VOLTAGE RANGE	7	85 ~ 264VAC (277VAC oper		(390VDC operational)			
	FREQUENCY RANG	F	47 ~ 63Hz	Tational) 120 070VDO	(030 V DO operational)			
INPUT	EFFICIENCY (Typ.)	_	89%	89.5%	90.5%		90.5%	
	AC CURRENT (Typ.)		3A/115VAC 1.6A/230V		90.370		30.370	
	INRUSH CURRENT (COLD START 35A/115VAC	70A/230VAC				
	,		105 ~ 135% rated output po					
PROTECTION	OVERLOAD		Hiccup mode when output	ut voltage <50%, recovers a ithin 50% ~100% rated c	· · · · · · · · · · · · · · · · · · ·			
	OVER VOLTAGE		14.2 ~ 16.2V Protection type : Shut down	18.8 ~ 22.5V o/p voltage, re-power on to re-	30 ~ 36V		56.5 ~ 64.8V	
	WORKING TEMP.		-30 ~ +70°C (Refer to "Dera	iting Curve")				
	WORKING HUMIDIT	Y	20 ~ 90% RH non-condensi	<u> </u>				
	STORAGE TEMP., H	UMIDITY	-40 ~ +85°C, 10 ~ 95% RH i	non-condensing				
ENVIRONMENT	TEMP. COEFFICIENT	Ī	$\pm 0.03\%$ °C (0 ~ 45°C) RH non-condensing					
	VIBRATION		10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes; Mounting: Compliance to IEC60068-2-6					
	OPERATING ALTI	TUDE	2000 meters (Note 4)					
	OVER VOLTAGE CA	TEGORY	III ; According to EN62368,EN61558, EN50178,EN60664-1, EN62477-1; altitude up to 2000 meters					
	SAFETY STANDARD	S	IEC62368-1, UL62368-1, UL61010, TUV BS EN/EN61558-2-16, BS EN/EN61558-1, EAC TP TC 004 approved; Design refer to BS EN/EN50178, TUV BS EN/EN62368-1					
	WITHSTAND VOLTA	GE	I/P-O/P:4KVAC					
	ISOLATION RESISTA	ANCE	I/P-O/P:100M Ohms / 500VI	DC / 25°C / 70% RH				
			Parameter	Standard		Test Level / No	te	
			Conducted	BS EN/EN55032(C	SPR32)	Class B		
	EMC EMISSION		Radiated	BS EN/EN55032(CI	SPR32)	Class B (note 5	5)	
			Harmonic Current (Note 6)	BS EN/EN61000-3-	2	Class A		
SAFETY &			Voltage Flicker	BS EN/EN61000-3-	3			
EMC			BS EN/EN55024, BS EN/EI	N61000-6-2				
(Note.7)			Parameter	Standard		Test Level /No	te	
			ESD	BS EN/EN61000-4-	2	Level 3, 8KV a	r; Level 2, 4KV contact, criteria	
			Radiated Susceptibility	BS EN/EN61000-4-	3	Level 3, criteria	a A	
	FMC IMMUNITY		EFT/Burest	BS EN/EN61000-4-	4	Level 3, criteria	a A	
	EMC IMMUNITY		Surge	BS EN/EN61000-4-	5	Level 4,2KV/L-	N, criteria A	
			Conducted	BS EN/EN61000-4-	6	Level 3, criteria	a A	
			Magnetic Field	BS EN/EN61000-4-	8	Level 4, criteria	a A	
			Voltage Dips and interruption	BS EN/EN61000-4-	>95% din 0 5 periode 30% din 25 r		5 periods, 30% dip 25 periods,	
	MTBF		3046.3K hrs min. Teld	cordia SR-332 (Bellcore) ;	535.9K hrs min. MI	L-HDBK-217F (25°℃)	
OTHERS	DIMENSION		105*90*54.5mm (W*H*D)					
	PACKING		0.31Kg; 32pcs/11Kg/1.0	CUFT				
NOTE	Ripple & noise are Tolerance : includes The ambient tempe When the input voltradiated emission for the common temperature.	measured as set up tole trature deratage is 230% or the powers at 70% leads to the powers of the powers at 70% leads at 70	by mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature. End at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1 μ F & 47 μ F parallel capacitor. Itolerance, line regulation and load regulation. Berating of 3.5°C/1000m with fanless models and of 5°C/1000m with fan models for operating altitude higher than 2000m(6500ft). 30VAC,delivers EMI Class B for radiated emission for the power supply; When the input voltage is 110VAC, delivers EMI Class A for ower supply.				an 2000m(6500ft). delivers EMI Class A for	

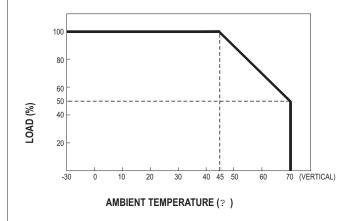


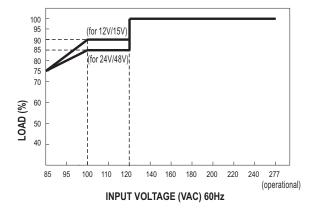
■ Block Diagram



■ Derating Curve VS Ambient Temperature

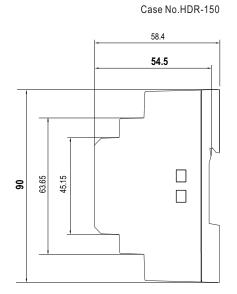
■ Output Derating VS Input Voltage







(Unit: mm , tolerance ± 0.5mm)



35

ADMISSIBLE DIN-RAIL:TS35/7.5 OR TS35/15

Terminal Pin No. Assignment

Pin No.	Assignment	Pin No.	Assignment
1	AC/N	3,4	-V
2	AC/L	5,6	+V

■ Installation Manual

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