



User's Manual

LISTED
UL61010BS EN/EN62368-1
BS EN/EN61558-1
BS EN/EN61010IEC62368-1
IEC61558-1
IEC61010AS/NES61558-1
AS/NES62368-1

(By request)

KC62368-1
(By request)CNS15598-1
GB4943.1
TPTC004
(Applying)

Applications

- Industrial control system
- Semiconductor fabrication equipment
- Factory automation
- Electro-mechanical apparatus
- Battery charger

GTIN CODE

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

Features

- 85~264Vac input range
- Global certificates in multi-fields
(ITE 62368-1, Industrial 61558-1/-2-16, 61010)
- 30mm slim width
- High efficiency up to 91% and no load power dissipation <1W
- Built-in constant current limiting circuit
- Protections: Short circuit / Overload / Over voltage
/ Over temperature
- Fanless design, cooling by free air convection
- Over voltage category III (OVC III)
- -40~+70°C wide range operation temperature (>+50°C derating)
- Operating altitude up to 5000 meters
- Built-in DC OK relay contact
- Can be installed on DIN rail TS-35/7.5 or 15
- 3 years warranty

Description

The XDR-75E series is a 75W AC/DC economical ultra slim industrial DIN rail power. Key features of this series include a narrow 30mm casing, optimizing system installation space, and an ultra-wide input range of 85~264Vac suitable for global use. It boasts a maximum efficiency of 91% and a low standby power consumption <1W for energy savings and carbon reduction. It has built-in constant current, fanless design, a wide operating temperature range of -40 to +70°C (up to +50°C at full load); OVCIII compliance; built-in DC OK signal. With comprehensive protection functions, complete safety certifications, and a 3-years warranty, the XDR-75E series is a compact, high-performance, and highly reliable DIN rail power supply.

Model Encoding

XDR - 75 E - 24

Output voltage(12V/24V/36V/48V)

Economical version

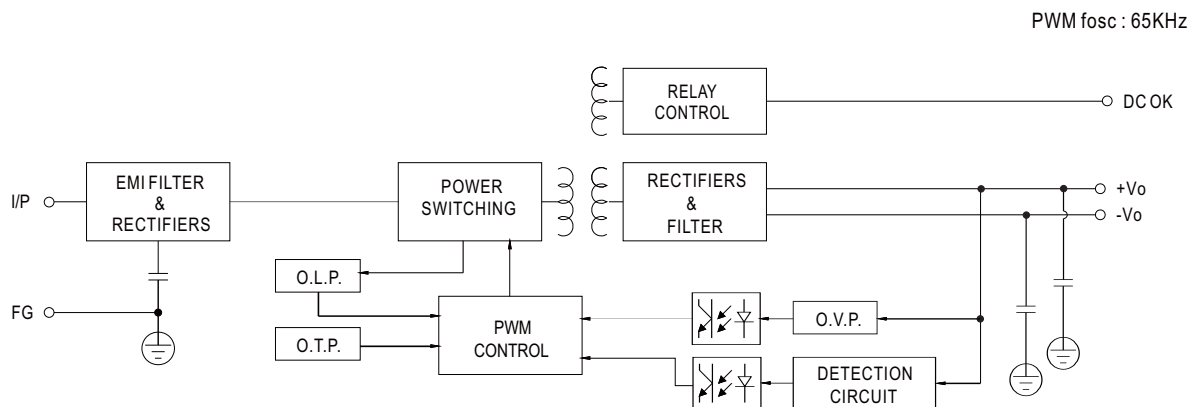
Output wattage

Series name

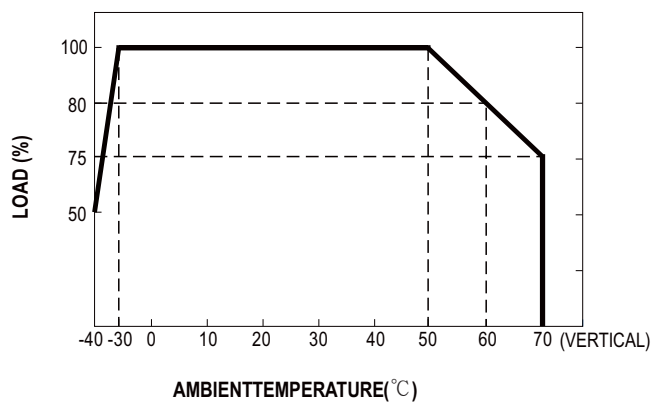
SPECIFICATION

MODEL		XDR-75E-12		XDR-75E-24		XDR-75E-36		XDR-75E-48		
OUTPUT	DC VOLTAGE	12V		24V		36V		48V		
	RATED CURRENT	6.3A		3.2A		2.1A		1.6A		
	CURRENT RANGE	0 ~ 6.3A		0 ~ 3.2A		0 ~ 2.1A		0 ~ 1.6A		
	RATED POWER	75.6W		76.8W		75.6W		76.8W		
	RIPPLE & NOISE (max.)	Note.2	100mVp-p		100mVp-p		120mVp-p		120mVp-p	
	VOLTAGE ADJ. RANGE	12 ~ 15V		24 ~ 29V		36 ~ 42V		48 ~ 55V		
	VOLTAGE TOLERANCE	Note.3	± 2.0%		± 1.0%		± 1.0%		± 1.0%	
	LINE REGULATION	± 0.5%		± 0.5%		± 0.5%		± 0.5%		
	LOAD REGULATION	± 1.0%		± 1.0%		± 1.0%		± 1.0%		
	SETUP, RISE TIME	1200ms, 60ms/230Vac 2500ms, 60ms/115Vac at full load								
	HOLD UP TIME (Typ.)	16ms/230Vac 10ms/115Vac at full load								
INPUT	AC VOLTAGE RANGE	85 ~ 264Vac								
	DC VOLTAGE RANGE	120 ~ 370Vdc								
	NO LOAD POWER CONSUMPTION (Typ.)	0.5W @115Vac 0.7W @230Vac		0.8W @115Vac 0.9W @230Vac		0.8W @115Vac 1W @230Vac				
	FREQUENCY RANGE	47 ~ 63Hz								
	EFFICIENCY (Typ.)	89%		90%		91%		91%		
	AC CURRENT (Typ.)	1.4A/115Vac 0.8A/230Vac								
	INRUSH CURRENT (Typ.)	COLD START 18A/115Vac 35A/230Vac								
	LEAKAGE CURRENT	<1mA / 240Vac								
PROTECTION	OVERLOAD	105-130% rated output power, constant current limiting without shutdown, recovers automatically after fault condition is removed								
	OVER VOLTAGE	15 ~ 18V		30 ~ 34V		43 ~ 50V		56 ~ 65V		
		Protection type : Shut down o/p voltage, re-power on to recover								
	OVER TEMPERATURE	Protection type : Hiccup mode, recovers automatically after fault condition is removed								
FUNCTION	DC OK RELAY CONTACT	Relay Contact Ratings (max.):30Vdc/1A, 30Vac/0.5A resistive load								
ENVIRONMENT	WORKING TEMP.	-40 ~ +70℃ (Refer to "Derating Curve")								
	WORKING HUMIDITY	20 ~ 95% RH non-condensing								
	STORAGE TEMP., HUMIDITY	-40 ~ +85℃, 10 ~ 95% RH non-condensing								
	TEMP. COEFFICIENT	± 0.03% /℃ (0 ~ 50℃)								
	VIBRATION	Component:10 ~ 500Hz, 2G 10min./1cycle, 60min. each along X, Y, Z axes; Mounting: Compliance to IEC60068-2-6								
SAFETY & EMC (Note 6)	SAFETY STANDARDS	UL61010; TUV BS EN/EN62368-1, BS EN/EN61558-1/-2-16, BS EN/EN61010; CB IEC62368-1, IEC61558-1, IEC61010; RCM AS/NZS 62368-1, AS/NZS 61558-1/-2-16; BSMI CNS15598-1; CCC GB4943.1; EAC TPTC004 approved; KC KC62368-1 and BIS IS13252 (Part 1):2010 certified, no stock ,contact sale for inquiries								
	OVER VOLTAGE CATEGORY	Note.4	IEC/EN 61558-1/-2-16 (OVC III, altitude up to 2000m) IEC/EN/UL 61010 (OVC II, altitude up to 5000m) IEC/EN 62368-1 (OVC II, altitude up to 5000m)							
	SAFETY EXTRA-LOW VOLTAGE(SELV)	IEC/EN 61558-2-16 (SELV) IEC/EN/UL 61010-2-201 (SELV) IEC/EN 62368-1 (SELV / ES1)								
	WITHSTAND VOLTAGE	I/P-O/P: 4KVac I/P-FG: 2KVac O/P-FG: 1.5KVac O/P-DC OK: 0.5KVac								
	ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG: 100M Ohms/500Vdc/25℃ / 70%RH								
	EMC EMISSION	Parameter	Standard					Test Level / Note		
		Conducted	BS EN/EN55032 (CISPR32)/ BS EN/EN61204-3 / CNS15936					Class B		
		Radiated	BS EN/EN55032 (CISPR32)/ BS EN/EN61204-3 / CNS15936					Class B		
		Harmonic Current	BS EN/EN61000-3-2					Class A		
		Voltage Flicker	BS EN/EN61000-3-3					-----		
	EMC IMMUNITY	BS EN/EN55035, BS EN/EN61204-3, BS EN/EN61000-6-2(BS EN/EN50082-2)								
		Parameter	Standard					Test Level / Note		
		ESD	BS EN/EN61000-4-2					Level 3, 8KV air ; Level 2, 4KV contact; criteria A		
		Radiated	BS EN/EN61000-4-3					Level 3, 10V/m ; criteria A		
		EFT / Burst	BS EN/EN61000-4-4					Level 3, 2KV ; criteria A		
		Surge	BS EN/EN61000-4-5					Level 4, 2KV/Line-Line ;Level 4, 4KV/Line-Line-Chassis ;criteria A		
		Conducted	BS EN/EN61000-4-6					Level 3, 10V ; criteria A		
Magnetic Field		BS EN/EN61000-4-8					Level 4, 30A/m ; criteria A			
OTHERS		MTBF	2425.7K hrs min. Telcordia SR-332 (Bellcore) ;		533.7K hrs min. MIL-HDBK-217F (25℃)					
	DIMENSION	30*125.2*116mm (W*H*D)								
	PACKING	400g; 24pcs/10.6Kg/1.16CUFT								
NOTE	1. All parameters NOT specially mentioned are measured at 230Vac input, rated load and 25℃ of ambient temperature. 2. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1 μ F & 47 μ F parallel capacitor. 3. Tolerance : includes set up tolerance, line regulation and load regulation. 4. The ambient temperature derating of 3.5℃/1000m with fanless models and of 5℃/1000m with fan models for operating altitude higher than 2000m(6500ft). 5. Installation clearances : 40mm on top, 20mm on the bottom, 5mm on the left and right side are recommended when loaded permanently with full power. In case the adjacent device is a heat source, 15mm clearance is recommended. 6. The power supply is considered a component which will be installed into a final equipment. The final equipment must be re-confirmed that it still meets EMC directives. (as available on https://www.meanwell.com/Upload/PDF/EMI_statement_en.pdf) ※ Product Liability Disclaimer : For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx									

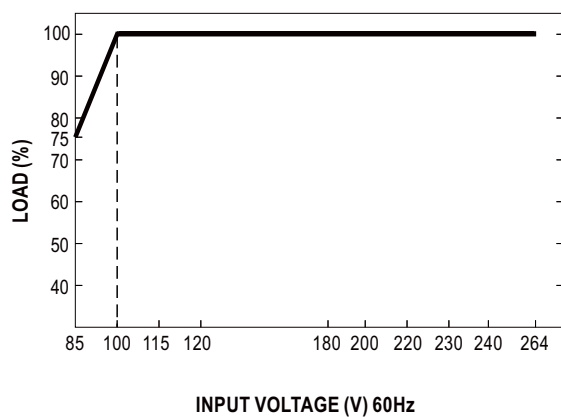
■ Block Diagram



■ Derating Curve



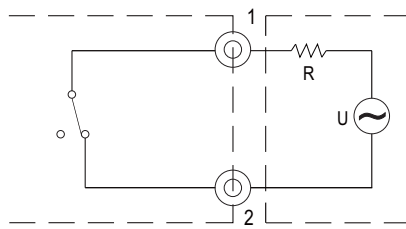
■ Static Characteristics



■ Function Manual

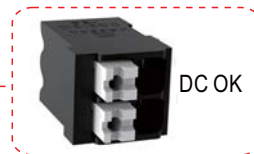
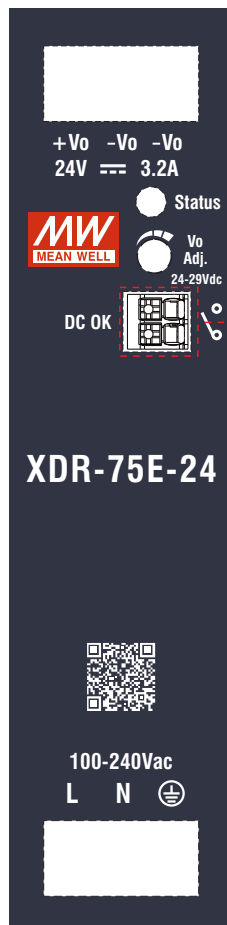
1.DC OK Relay Contact

Contact Close	PSU turns ON / DC OK.
Contact Open	PSU turns OFF / DC Fail.
Contact Ratings (max.)	30Vdc/1A, 30Vac/0.5A resistive load.



External voltage source (U) and resistor (R)
(The max. Sink is 30Vdc/1A, 30Vac/0.5A)

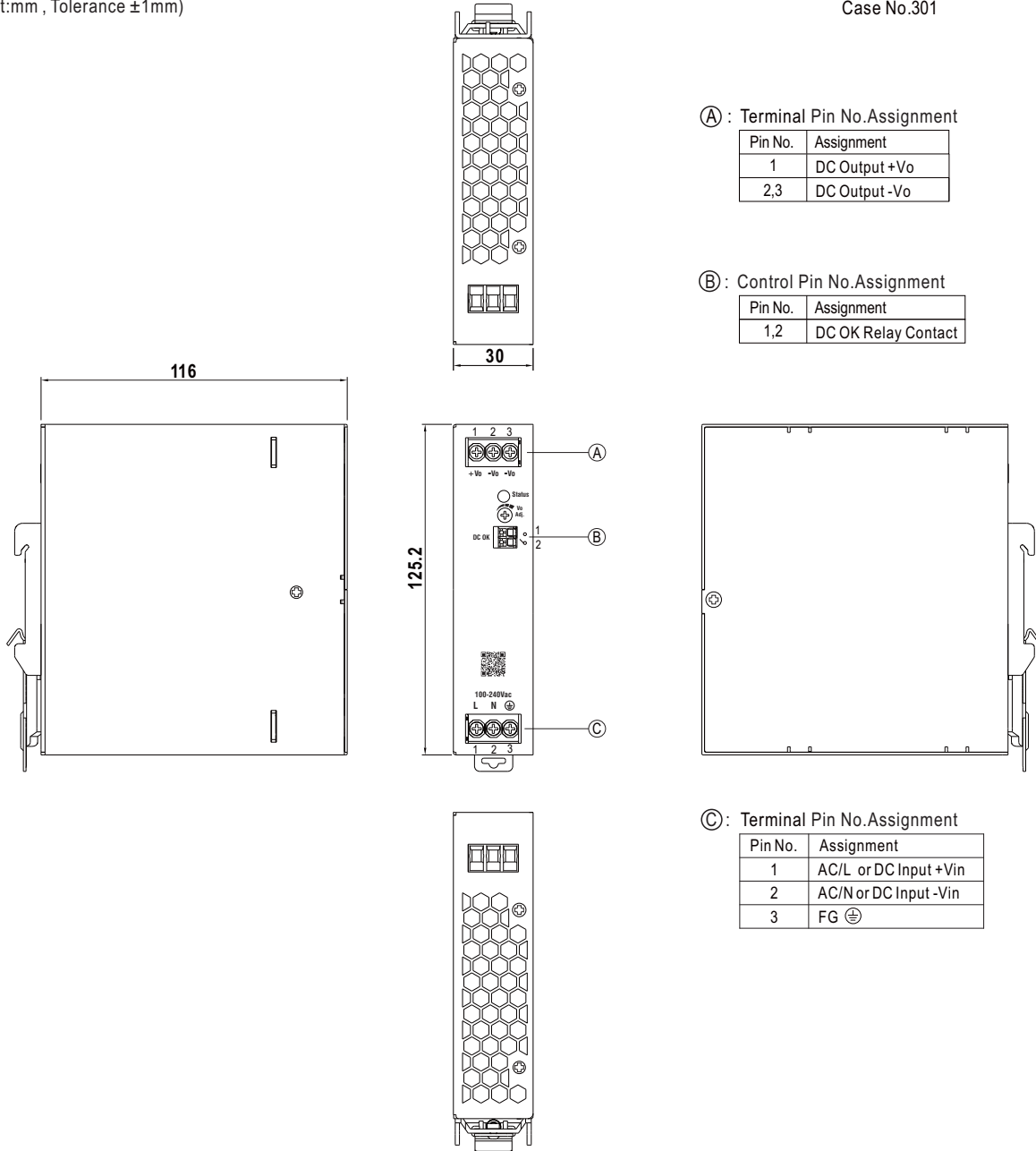
Internal circuit of DC_OK, via relay contact



■ Mechanical Specification

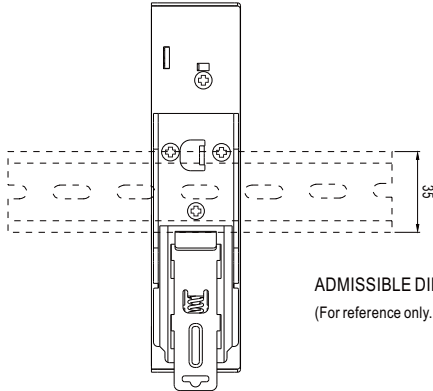
(Unit:mm , Tolerance ± 1 mm)

Case No.301



■ Recommend Wiring

	AC Input T.B	DC Output T.B	Signal connector
Solid Wire	6mm ² max.	6mm ² max.	1.5mm ² max.
A.W.G	18~10 AWG	18~10 AWG	24~16 AWG
Wire Stripping Length	7~8mm	7~8mm	8~9mm
Screw Terminal Torque	5 Lb-In	5 Lb-In	/

■ Installation Instruction

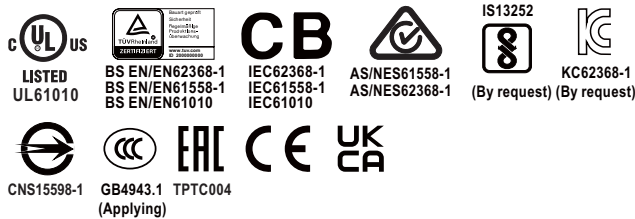
ADMISSIBLE DIN-RAIL: TS35/7.5 OR TS35/15
(For reference only. Not included with unit.)

This series fits DIN rail TS35/7.5 or TS35/15.

For installation details, please refer to the Instruction manual.

■ Installation Manual

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



■ Features

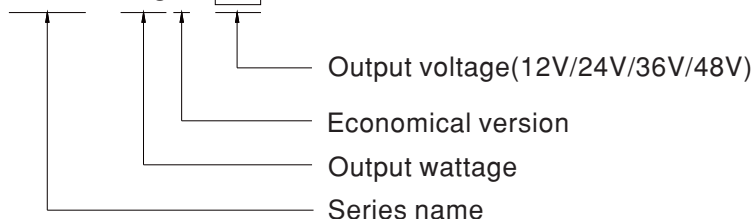
- 85~264Vac input range
- Global certificates in multi-fields
(ITE 62368-1, Industrial 61558-1/-2-16, 61010)
- 30mm slim width
- High efficiency up to 91% and no load power dissipation <1W
- Built-in constant current limiting circuit
- Protections: Short circuit / Overload / Over voltage / Over temperature
- Fanless design, cooling by free air convection
- Over voltage category III (OVC III)
- -40~+70°C wide range operation temperature (>+50°C derating)
- Operating altitude up to 5000 meters
- Built-in DC OK relay contact
- Can be installed on DIN rail TS-35/7.5 or 15
- 3 years warranty

■ Description

The XDR-120E series is a 120W AC/DC economical ultra slim industrial DIN rail power. Key features of this series include a narrow 30mm casing, optimizing system installation space, and an ultra-wide input range of 85~264Vac suitable for global use. It boasts a maximum efficiency of 91% and a low standby power consumption <1W for energy savings and carbon reduction. It has built-in constant current, fanless design, a wide operating temperature range of -40 to +70°C (up to +50°C at full load); OVCIII compliance; built-in DC OK signal. With comprehensive protection functions, complete safety certifications, and a 3-years warranty, the XDR-120E series is a compact, high-performance, and highly reliable DIN rail power supply.

■ Model Encoding

XDR - 120E - 24



■ Applications

- Industrial control system
- Semiconductor fabrication equipment
- Factory automation
- Electro-mechanical apparatus
- Battery charger

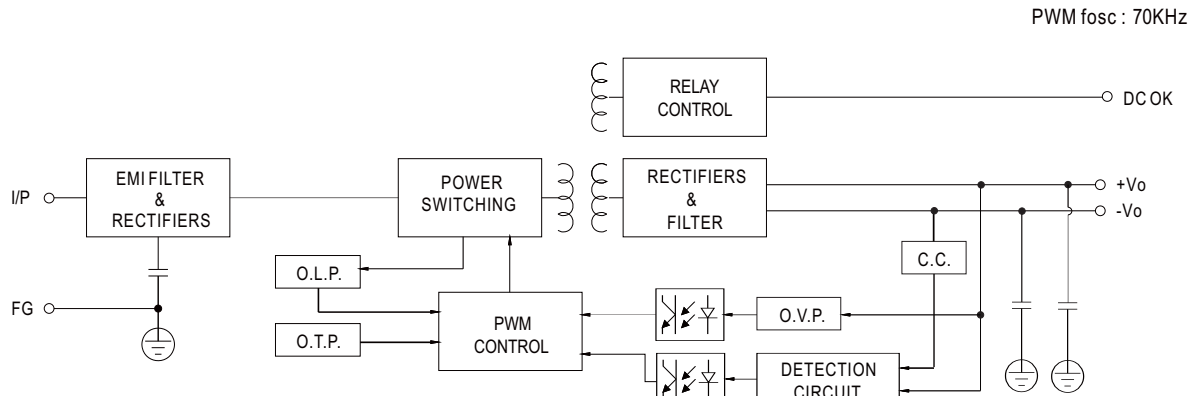
■ GTIN CODE

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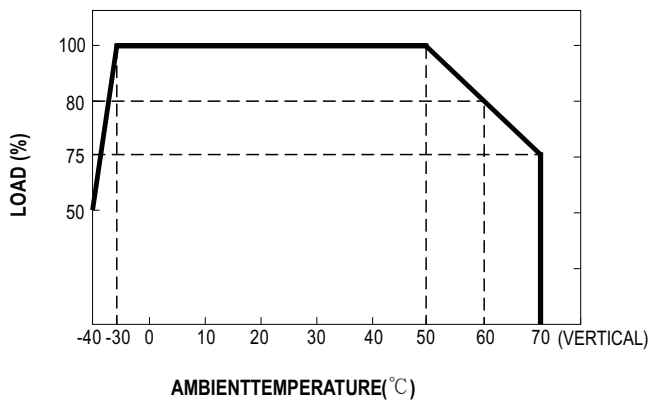
SPECIFICATION

MODEL		XDR-120E-12		XDR-120E-24		XDR-120E-36		XDR-120E-48			
OUTPUT	DC VOLTAGE	12V		24V		36V		48V			
	RATED CURRENT	10A		5A		3.33A		2.5A			
	CURRENT RANGE	0 ~ 10A		0 ~ 5A		0 ~ 3.33A		0 ~ 2.5A			
	RATED POWER	120W		120W		119.88W		120W			
	RIPPLE & NOISE (max.)	Note.2	100mVp-p		120mVp-p		150mVp-p		150mVp-p		
	VOLTAGE ADJ. RANGE	12 ~ 15V		24 ~ 29V		36 ~ 42V		48 ~ 55V			
	VOLTAGE TOLERANCE	Note.3	± 2.0%		± 1.0%		± 1.0%		± 1.0%		
	LINE REGULATION	± 0.5%		± 0.5%		± 0.5%		± 0.5%			
	LOAD REGULATION	± 1.0%		± 1.0%		± 1.0%		± 1.0%			
	SETUP, RISE TIME	1200ms, 60ms/230Vac 2500ms, 60ms/115Vac at full load									
	HOLD UP TIME (Typ.)	16ms/230Vac 8ms/115Vac at full load									
INPUT	AC VOLTAGE RANGE	85 ~ 264Vac									
	DC VOLTAGE RANGE	120 ~ 370Vdc									
	NO LOAD POWER CONSUMPTION (Typ.)	0.6W @115Vac		0.9W @ 230Vac		0.8W @115Vac		1W @ 230Vac			
	FREQUENCY RANGE	47 ~ 63Hz									
	EFFICIENCY (Typ.)	89%			91%			91%			
	AC CURRENT (Typ.)	2.3A/115Vac		1.3A/230Vac							
	INRUSH CURRENT (Typ.)	COLD START		20A/115Vac		40A/230Vac					
	LEAKAGE CURRENT	<1mA/ 240Vac									
PROTECTION	OVERLOAD	105-130% rated output power, constant current limiting without shutdown, recovers automatically after fault condition is removed									
	OVER VOLTAGE	15 ~ 18V			30 ~ 34V			43 ~ 50V			
	Protection type : Shut down o/p voltage, re-power on to recover										
	OVER TEMPERATURE	Protection type : Shut down o/p voltage,recovers automatically after fault condition is removed									
FUNCTION	DC OK RELAY CONTACT	Relay Contact Ratings (max.):30Vdc/1A, 30Vac/0.5A resistive load									
ENVIRONMENT	WORKING TEMP.	Note.4	-40 ~ +70℃ (Refer to "Derating Curve")								
	WORKING HUMIDITY	20 ~ 95% RH non-condensing									
	STORAGE TEMP., HUMIDITY	-40 ~ +85℃, 10 ~ 95% RH non-condensing									
	TEMP. COEFFICIENT	±0.03% /℃ (0 ~ 50℃)									
	VIBRATION	Component:10 ~ 500Hz, 2G 10min./1cycle, 60min. each along X, Y, Z axes; Mounting: Compliance to IEC60068-2-6									
SAFETY & EMC (Note 7)	SAFETY STANDARDS	UL61010; TUV BS EN/EN62368-1, BS EN/EN61558-1/-2-16, BS EN/EN61010; CB IEC62368-1, IEC61558-1, IEC61010; RCM AS/NZS 62368-1, AS/NZS 61558-1/-2-16; BSMI CNS15598-1; CCC GB4943.1; EAC TPTC004 approved; KC KC62368-1 and BIS IS13252 (Part 1):2010 certified, no stock ,contact sale for inquire									
	OVER VOLTAGE CATEGORY	Note.5	IEC/EN 61558-1/-2-16 (OVC III, altitude up to 2000m) IEC/EN/UL 61010 (OVC II, altitude up to 5000m) IEC/EN 62368-1 (OVC II, altitude up to 5000m)								
	SAFETY EXTRA-LOW VOLTAGE(SELV)	IEC/EN 61558-2-16 (SELV) IEC/EN/UL 61010-2-201 (SELV) IEC/EN 62368-1 (SELV / ES1)									
	WITHSTAND VOLTAGE	I/P-O/P: 4KVac I/P-FG: 2KVac O/P-FG: 1.5KVac O/P-DC OK: 0.5KVac									
	ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG: 100M Ohms/500Vdc/25℃/ 70%RH									
	EMC EMISSION	Parameter	Standard						Test Level / Note		
		Conducted	BS EN/EN55032 (CISPR32) / BS EN/EN61204-3 / CNS15936						Class B		
		Radiated	BS EN/EN55032 (CISPR32) / BS EN/EN61204-3 / CNS15936						Class B		
		Harmonic Current	BS EN/EN61000-3-2						Class A		
		Voltage Flicker	BS EN/EN61000-3-3						-----		
		EMC IMMUNITY	BS EN/EN55035, BS EN/EN61204-3, BS EN/EN61000-6-2(BS EN/EN50082-2)								
			Parameter	Standard				Test Level / Note			
ESD			BS EN/EN61000-4-2				Level 3, 8KV air ; Level 2, 4KV contact; criteria A				
Radiated			BS EN/EN61000-4-3				Level 3, 10V/m ; criteria A				
EFT / Burst			BS EN/EN61000-4-4				Level 3, 2KV ; criteria A				
Surge	BS EN/EN61000-4-5				Level 4, 2KV/Line-Line ;Level 4, 4KV/Line-Line-Chassis ;criteria A						
Conducted	BS EN/EN61000-4-6				Level 3, 10V ; criteria A						
Magnetic Field	BS EN/EN61000-4-8				Level 4, 30A/m ; criteria A						
OTHERS	MTBF	2223.1K hrs min.		Telcordia SR-332 (Bellcore) ;		440.4K hrs min.		MIL-HDBK-217F (25℃)			
	DIMENSION	30*125.2*116mm (W*H*D)									
	PACKING	420g; 24pcs/11.1Kg/1.16CUFT									
NOTE	1. All parameters NOT specially mentioned are measured at 230Vac input, rated load and 25℃ of ambient temperature.										
	2. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1 μ F & 47 μ F parallel capacitor.										
	3. Tolerance : includes set up tolerance, line regulation and load regulation.										
	4. When the temperature is between -40 ° C and -20 ° C and the input voltage is between 85V and 90V, the temperature derating curve drops to 40% .										
	5. The ambient temperature derating of 3.5℃/1000m with fanless models and of 5℃/1000m with fan models for operating altitude higher than 2000m(6500ft).										
	6. Installation clearances : 40mm on top, 20mm on the bottom, 5mm on the left and right side are recommended when loaded permanently with full power.										
	In case the adjacent device is a heat source, 15mm clearance is recommended.										
	7. The power supply is considered a component which will be installed into a final equipment. The final equipment must be re-confirmed that it still meets EMC directives. (as available on https://www.meanwell.com/Upload/PDF/EMI_statement_en.pdf)										
	※ Product Liability Disclaimer : For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx										

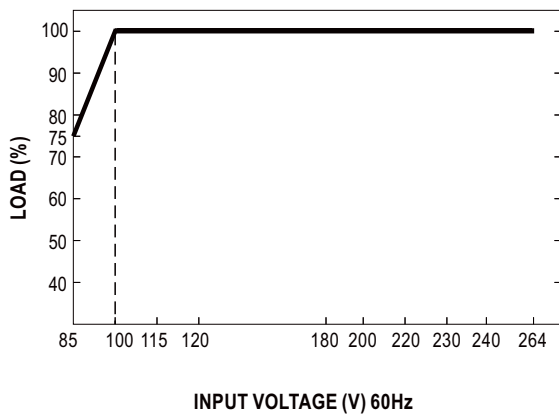
■ Block Diagram



■ Derating Curve



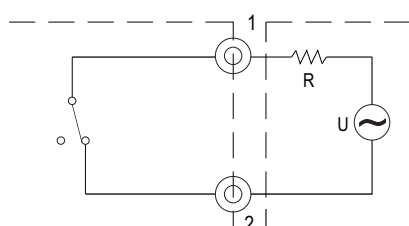
■ Static Characteristics



■ Function Manual

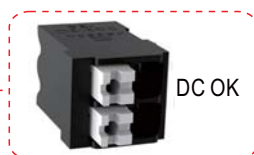
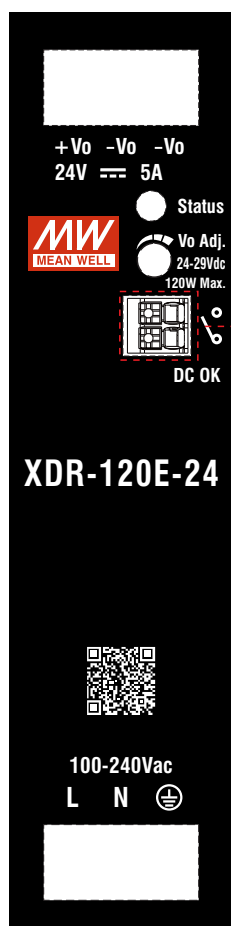
1.DC OK Relay Contact

Contact Close	PSU turns ON / DC OK.
Contact Open	PSU turns OFF / DC Fail.
Contact Ratings (max.)	30Vdc/1A, 30Vac/0.5A resistive load.



External voltage source (U) and resistor (R)
(The max. Sink is 30Vdc/1A, 30Vac/0.5A)

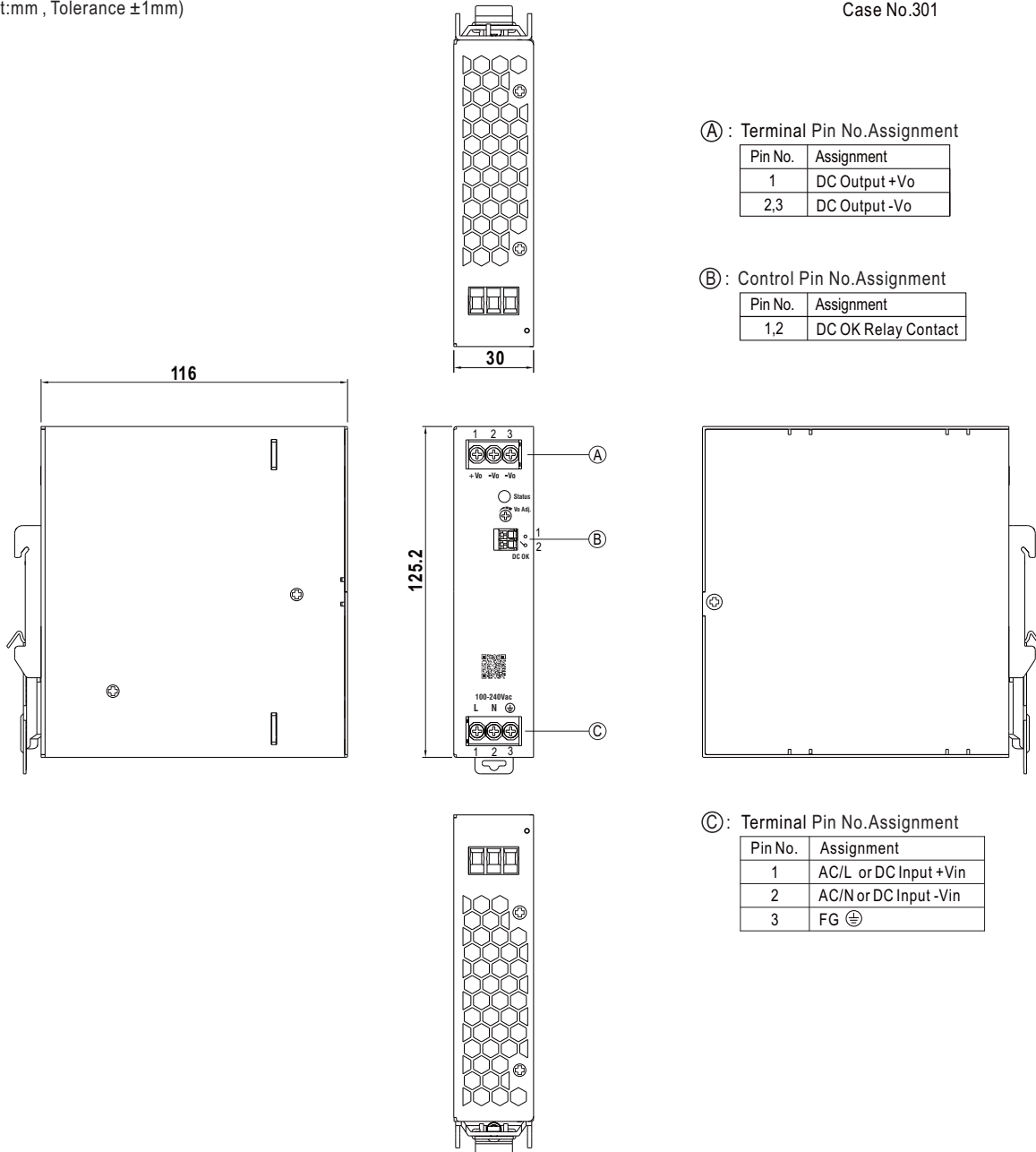
Internal circuit of DC_OK, via relay contact



■ Mechanical Specification

(Unit:mm , Tolerance ± 1 mm)

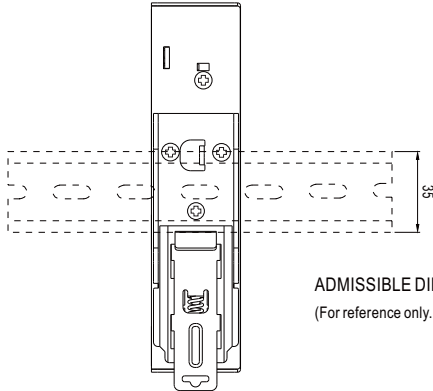
Case No.301



■ Recommend Wiring

	AC Input T.B	DC Output T.B	Signal connector
Solid Wire	6mm ² max.	6mm ² max.	1.5mm ² max.
A.W.G	16~10 AWG	16~10 AWG	24~16 AWG
Wire Stripping Length	7~8mm	7~8mm	8~9mm
Screw Terminal Torque	5 Lb-In	5 Lb-In	/

■ Installation Instruction

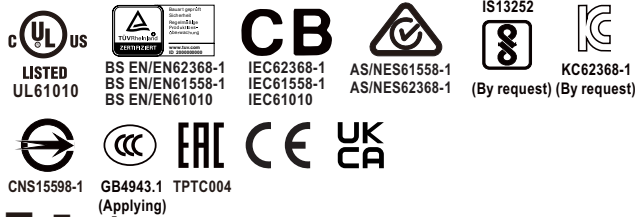


ADMISSIBLE DIN-RAIL: TS35/7.5 OR TS35/15
(For reference only. Not included with unit.)

This series fits DIN rail TS35/7.5 or TS35/15.
For installation details, please refer to the Instruction manual.

■ Installation Manual

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



■ Features

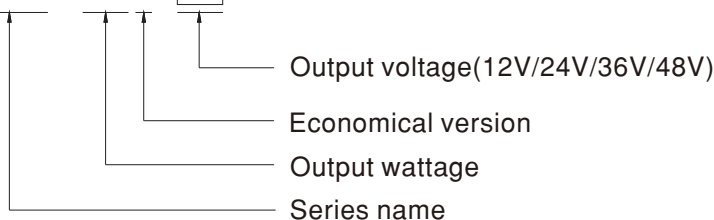
- 85~264Vac input range
- Global certificates in multi-fields (ITE 62368-1, Industrial 61558-1/-2-16, 61010)
- 30mm slim width
- High efficiency up to 91% and no load power dissipation < 1W
- Built-in constant current limiting circuit
- Protections: Short circuit / Overload / Over voltage / Over temperature
- Fanless design, cooling by free air convection
- Over voltage category III (OVC III)
- -40~+70°C wide range operation temperature (>+50°C derating)
- Operating altitude up to 5000 meters
- Built-in DC OK relay contact
- Can be installed on DIN rail TS-35/7.5 or 15
- 3 years warranty

■ Description

The XDR-150E series is a 150W AC/DC economical ultra slim industrial DIN rail power. Key features of this series include a narrow 30mm casing, optimizing system installation space, and an ultra-wide input range of 85~264Vac suitable for global use. It boasts a maximum efficiency of 91% and a low standby power consumption < 1W for energy savings and carbon reduction. It has built-in constant current, fanless design, a wide operating temperature range of -40 to +70°C (up to +50°C at full load); OVCIII compliance; built-in DC OK signal. With comprehensive protection functions, complete safety certifications, and a 3-years warranty, the XDR-150E series is a compact, high-performance, and highly reliable DIN rail power supply.

■ Model Encoding

XDR - 150E - 24



■ Applications

- Industrial control system
- Semiconductor fabrication equipment
- Factory automation
- Electro-mechanical apparatus
- Battery charger

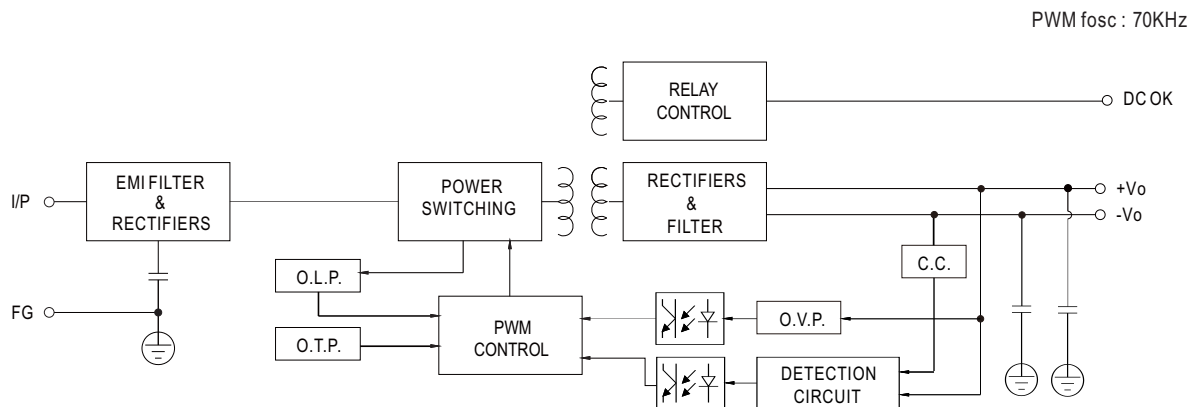
■ GTIN CODE

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

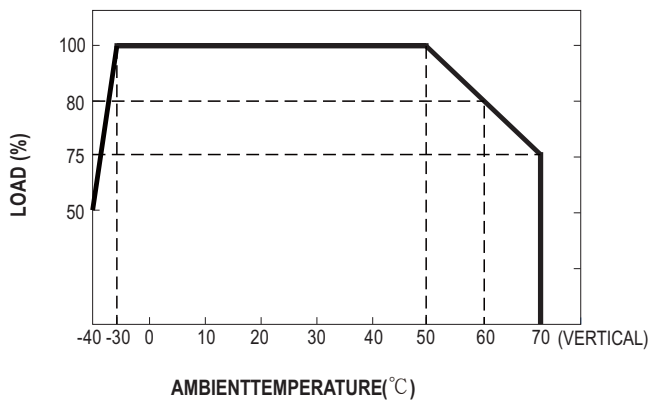
SPECIFICATION

MODEL			XDR-150E-12	XDR-150E-24	XDR-150E-36	XDR-150E-48		
OUTPUT	DC VOLTAGE		12V	24V	36V	48V		
	RATED CURRENT	115VAC	10A	5.2A	3.46A	2.6A		
		230VAC	11A	6.5A	4.33A	3.25A		
	CURRENT RANGE	115VAC	0 ~ 10A	0 ~ 5.2A	0 ~ 3.46A	0 ~ 2.6A		
		230VAC	0 ~ 11A	0 ~ 6.5A	0 ~ 4.33A	0 ~ 3.25A		
	RATED POWER	115VAC	120W	124.8W	124.56W	124.8W		
		230VAC	132W	156W	155.88W	156W		
	RIPPLE & NOISE (max.) Note.2		100mVp-p	120mVp-p	150mVp-p	200mVp-p		
	VOLTAGE ADJ. RANGE		12 ~ 15V	24 ~ 29V	36 ~ 42V	48 ~ 55V		
	VOLTAGE TOLERANCE Note.3		± 2.0%	± 1.0%	± 1.0%	± 1.0%		
	LINE REGULATION		± 0.5%	± 0.5%	± 0.5%	± 0.5%		
	LOAD REGULATION		± 1.0%	± 1.0%	± 1.0%	± 1.0%		
SETUP, RISE TIME		1200ms, 60ms/230Vac 2500ms, 60ms/115Vac at full load						
HOLD UP TIME (Typ.)		16ms/230Vac 8ms/115Vac at full load						
INPUT	AC VOLTAGE RANGE		85 ~ 264Vac					
	DC VOLTAGE RANGE		120 ~ 370Vdc					
	NO LOAD POWER CONSUMPTION (Typ.)		0.6W @115Vac 0.9W @ 230Vac	0.8W @115Vac 1W @ 230Vac				
	FREQUENCY RANGE		47 ~ 63Hz					
	EFFICIENCY (Typ.)		89%	91%	91%	91%		
	AC CURRENT (Typ.)		2.6A/115Vac 1.6A/230Vac					
	INRUSH CURRENT (Typ.)		COLD START 20A/115Vac 40A/230Vac					
	LEAKAGE CURRENT		<1mA / 240Vac					
PROTECTION	OVERLOAD		105~130% rated output power ,constant current limiting without shutdown, recovers automatically after fault condition is removed /230Vac 105~150% rated output power ,constant current limiting without shutdown, recovers automatically after fault condition is removed/115Vac					
	OVER VOLTAGE		15 ~ 18V	30 ~ 34V	43 ~ 50V	56 ~ 65V		
			Protection type : Shut down o/p voltage, re-power on to recover					
	OVER TEMPERATURE		Protection type : Shut down o/p voltage,recovers automatically after fault condition is removed					
FUNCTION	DC OK RELAY CONTACT		Relay Contact Ratings (max.):30Vdc/1A, 30Vac/0.5A resistive load					
ENVIRONMENT	WORKING TEMP. Note.4		-40 ~ +70℃ (Refer to "Derating Curve")					
	WORKING HUMIDITY		20 ~ 95% RH non-condensing					
	STORAGE TEMP., HUMIDITY		-40 ~ +85℃, 10 ~ 95% RH non-condensing					
	TEMP. COEFFICIENT		±0.03% /℃ (0 ~ 50℃)					
	VIBRATION		Component:10 ~ 500Hz, 2G 10min./1cycle, 60min. each along X, Y, Z axes; Mounting: Compliance to IEC60068-2-6					
SAFETY & EMC (Note 7)	SAFETY STANDARDS		UL61010; TUV BS EN/EN62368-1, BS EN/EN61558-1/-2-16, BS EN/EN61010; CB IEC62368-1, IEC61558-1, IEC61010; RCM AS/NZS 62368-1, AS/NZS 61558-1/-2-16; BSMI CNS15598-1; CCC GB4943.1; EAC TPTC004 approved; KC KC62368-1 and BIS IS13252 (Part 1):2010 certified, no stock ,contact sale for inquiries					
	OVER VOLTAGE CATEGORY Note.5		IEC/EN 61558-1/-2-16 (OVC III, altitude up to 2000m) IEC/EN/UL 61010 (OVC II, altitude up to 5000m) IEC/EN 62368-1 (OVC II, altitude up to 5000m)					
	SAFETY EXTRA-LOW VOLTAGE(SELV)		IEC/EN 61558-2-16 (SELV) IEC/EN/UL 61010-2-201 (SELV) IEC/EN 62368-1 (SELV / ES1)					
	WITHSTAND VOLTAGE		I/P-O/P: 4KVac I/P-FG: 2KVac O/P-FG: 1.5KVac O/P-DC OK: 0.5KVac					
	ISOLATION RESISTANCE		I/P-O/P, I/P-FG, O/P-FG: 100M Ohms/500Vdc/25℃ / 70%RH					
	EMC EMISSION		Parameter		Standard		Test Level / Note	
			Conducted		BS EN/EN55032 (CISPR32) / BS EN/EN61204-3 / CNS15936		Class B	
			Radiated		BS EN/EN55032 (CISPR32) / BS EN/EN61204-3 / CNS15936		Class B	
			Harmonic Current		BS EN/EN61000-3-2		Class A(≤80% LOAD)	
			Voltage Flicker		BS EN/EN61000-3-3		-----	
EMC IMMUNITY		BS EN/EN55035, BS EN/EN61204-3, BS EN/EN61000-6-2(BS EN/EN50082-2)						
		Parameter		Standard		Test Level / Note		
		ESD		BS EN/EN61000-4-2		Level 3, 8KV air ; Level 2, 4KV contact; criteria A		
		Radiated		BS EN/EN61000-4-3		Level 3, 10V/m ; criteria A		
		EFT / Burst		BS EN/EN61000-4-4		Level 3, 2KV ; criteria A		
		Surge		BS EN/EN61000-4-5		Level 4, 2KV/Line-Line ;Level 4, 4KV/Line-Line-Chassis ;criteria A		
		Conducted		BS EN/EN61000-4-6		Level 3, 10V ; criteria A		
		Magnetic Field		BS EN/EN61000-4-8		Level 4, 30A/m ; criteria A		
OTHERS	MTBF		2201.7K hrs min. Telcordia SR-332 (Bellcore) ; 440.4K hrs min. MIL-HDBK-217F (25℃)					
	DIMENSION		30*125.2*116mm (W*H*D)					
	PACKING		430g; 24pcs/11.3Kg/1.16CUFT					
NOTE								
1. All parameters NOT specially mentioned are measured at 230Vac input, rated load and 25℃ of ambient temperature. 2. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1 μ F & 47 μ F parallel capacitor. 3. Tolerance : includes set up tolerance, line regulation and load regulation. 4. When the temperature is between -40 ° C and -20 ° C and the input voltage is between 85V and 90V, the temperature derating curve drops to 40% . 5. The ambient temperature derating of 3.5℃/1000m with fanless models and of 5℃/1000m with fan models for operating altitude higher than 2000m(6500ft). 6. Installation clearances : 40mm on top, 20mm on the bottom, 5mm on the left and right side are recommended when loaded permanently with full power. In case the adjacent device is a heat source, 15mm clearance is recommended. 7. The power supply is considered a component which will be installed into a final equipment. The final equipment must be re-confirmed that it still meets EMC directives. (as available on https://www.meanwell.com/Upload/PDF/EMI_statement_en.pdf) ※ Product Liability Disclaimer : For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx								

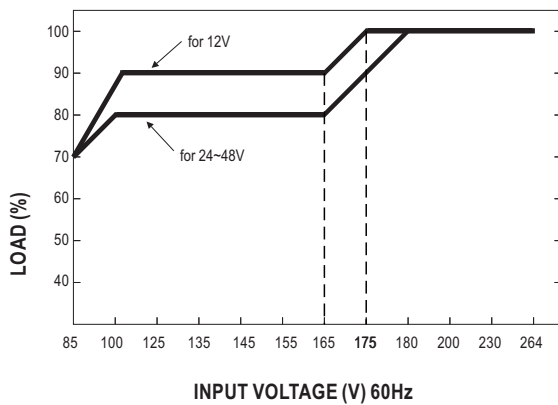
■ Block Diagram



■ Derating Curve



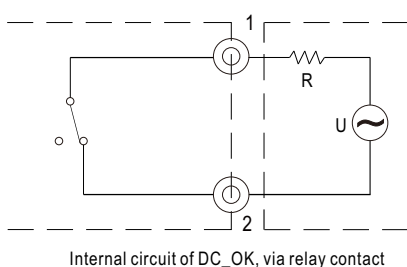
■ Static Characteristics



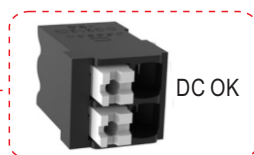
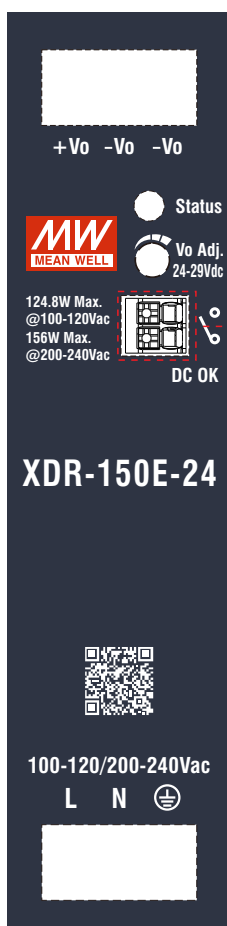
■ Function Manual

1.DC OK Relay Contact

Contact Close	PSU turns ON / DC OK.
Contact Open	PSU turns OFF / DC Fail.
Contact Ratings (max.)	30Vdc/1A, 30Vac/0.5A resistive load.



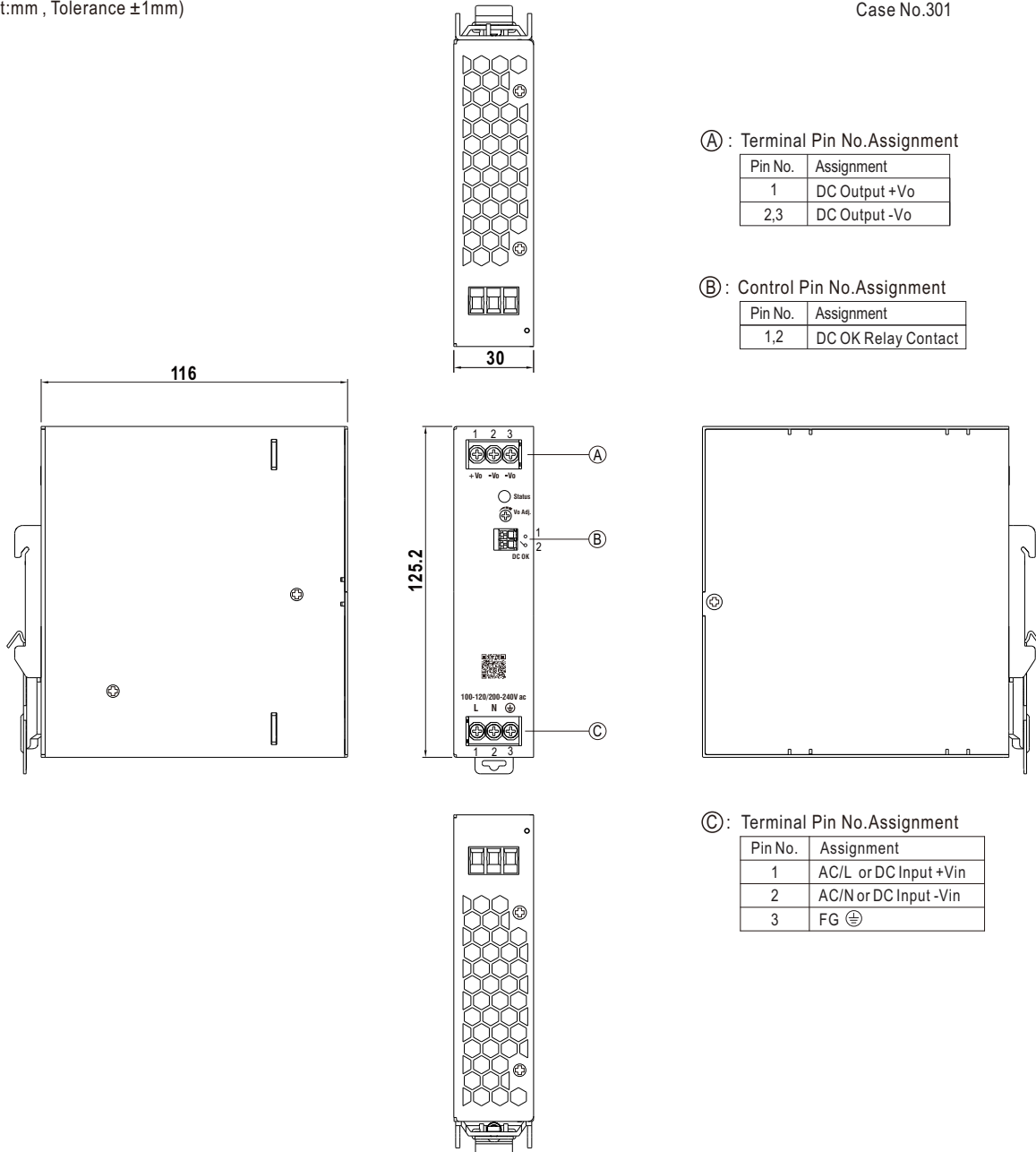
External voltage source (U) and resistor (R)
(The max. Sink is 30Vdc/1A, 30Vac/0.5A)



■ Mechanical Specification

(Unit:mm , Tolerance ± 1 mm)

Case No.301



Ⓐ : Terminal Pin No.Assignment

Pin No.	Assignment
1	DC Output +Vo
2,3	DC Output -Vo

Ⓑ : Control Pin No.Assignment

Pin No.	Assignment
1,2	DC OK Relay Contact

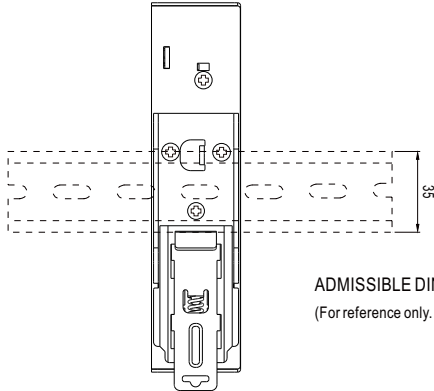
Ⓒ : Terminal Pin No.Assignment

Pin No.	Assignment
1	AC/L or DC Input +Vin
2	AC/N or DC Input -Vin
3	FG ⊕

■ Recommend Wiring

	AC Input T.B	DC Output T.B	Signal connector
Solid Wire	6mm ² max.	6mm ² max.	1.5mm ² max.
A.W.G	20~10 AWG	16~10 AWG	24~16 AWG
Wire Stripping Length	7~8mm	7~8mm	8~9mm
Screw Terminal Torque	5 Lb-In	5 Lb-In	/

■ Installation Instruction

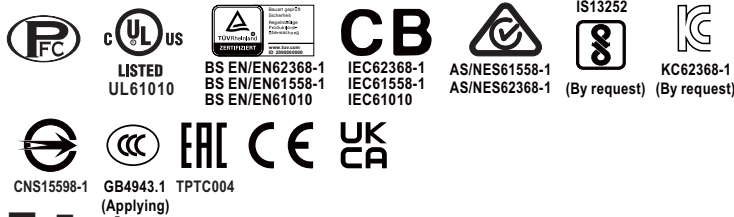


ADMISSIBLE DIN-RAIL: TS35/7.5 OR TS35/15
(For reference only. Not included with unit.)

This series fits DIN rail TS35/7.5 or TS35/15.
For installation details, please refer to the Instruction manual.

■ Installation Manual

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



■ Features

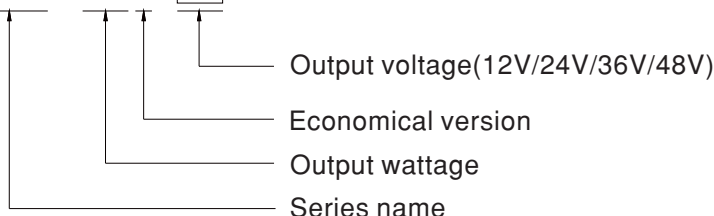
- 85~264Vac input with PFC
- Global certificates in multi-fields (ITE 62368-1, Industrial 61558-1/-2-16, 61010)
- 40mm slim width
- High efficiency up to 95.5% and no load power dissipation < 1.2W
- Built-in constant current limiting circuit
- Protections: Short circuit / Overload / Over voltage / Over temperature
- Fanless design, cooling by free air convection
- Over voltage category III (OVC III)
- -40~+70°C wide range operation temperature (>+50°C derating)
- Operating altitude up to 5000 meters
- Built-in DC OK relay contact
- Can be installed on DIN rail TS-35/7.5 or 15
- 3 years warranty

■ Description

The XDR-240E series is a 240W AC/DC economical ultra slim industrial DIN rail power. Key features of this series include a narrow 40mm casing, optimizing system installation space, and an ultra-wide input range of 85~264Vac suitable for global use. It boasts a maximum efficiency of 95.5% and a low standby power consumption < 1.2W for energy savings and carbon reduction. It has built-in constant current, fanless design, a wide operating temperature range of -40 to +70°C (up to +50°C at full load); OVCIII compliance; built-in DC OK signal. With comprehensive protection functions, complete safety certifications, and a 3-years warranty, the XDR-240E series is a compact, high-performance, and highly reliable DIN rail power supply.

■ Model Encoding

XDR - 240E - 24



■ Applications

- Industrial control system
- Semiconductor fabrication equipment
- Factory automation
- Electro-mechanical apparatus
- Battery charger

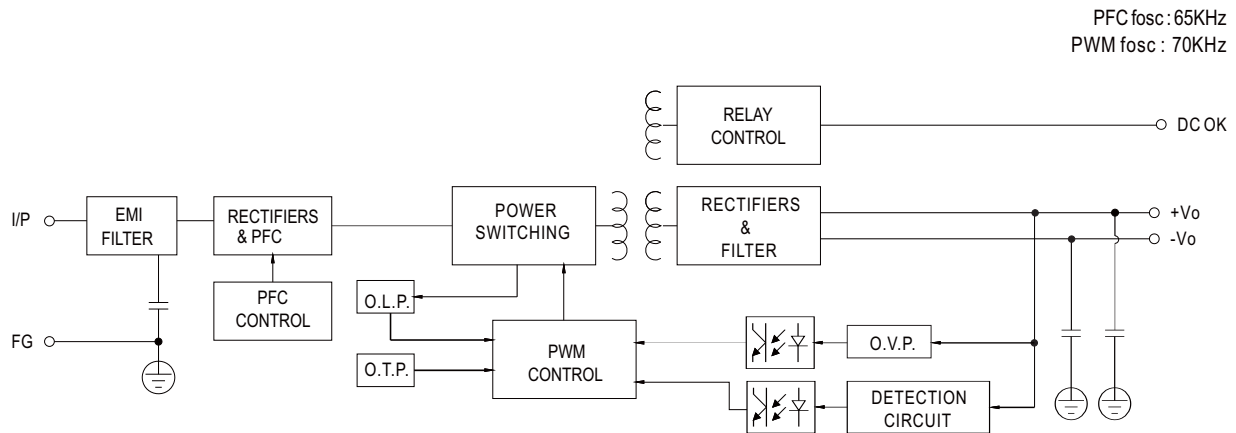
■ GTIN CODE

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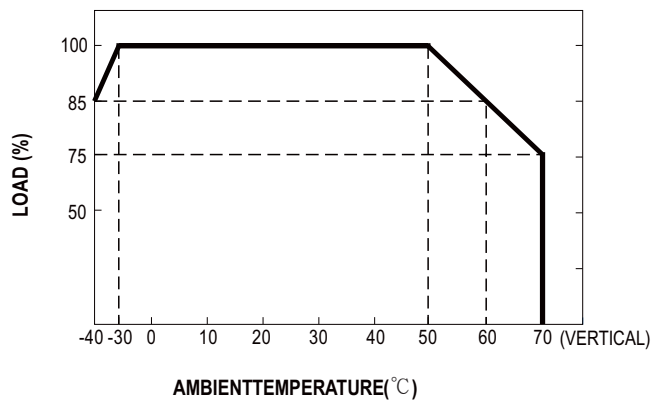
SPECIFICATION

MODEL		XDR-240E-12		XDR-240E-24		XDR-240E-36		XDR-240E-48		
OUTPUT	DC VOLTAGE		12V		24V		36V		48V	
	RATED CURRENT		20A		10A		6.66A		5A	
	CURRENT RANGE		0 ~ 20A		0 ~ 10A		0 ~ 6.66A		0 ~ 5A	
	RATED POWER		240W							
	RIPPLE & NOISE (max.) Note.2		100mVp-p		100mVp-p		120mVp-p		150mVp-p	
	VOLTAGE ADJ. RANGE		12 ~ 15V		24 ~ 29V		36 ~ 42V		48 ~ 55V	
	VOLTAGE TOLERANCE Note.3		± 2.0%		± 1.0%		± 1.0%		± 1.0%	
	LINE REGULATION		± 0.5%		± 0.5%		± 0.5%		± 0.5%	
	LOAD REGULATION		± 1.0%		± 1.0%		± 1.0%		± 1.0%	
	SETUP, RISE TIME		1200ms, 60ms/230Vac		2500ms, 150ms/115Vac at full load					
	HOLD UP TIME (Typ.)		20ms/230Vac		20ms/115Vac at full load					
INPUT	AC VOLTAGE RANGE		85 ~ 264Vac							
	DC VOLTAGE RANGE		120 ~ 370Vdc							
	NO LOAD POWER CONSUMPTION (Typ.)		1W @115Vac & 230Vac		1.2W @115Vac & 230Vac					
	FREQUENCY RANGE		47 ~ 63Hz							
	POWDR FACTOR (Typ.)		PF>0.95/230Vac PF>0.98/115Vac at full load							
	EFFICIENCY (Typ.)		94%		95.2%		95.5%		95.5%	
	AC CURRENT (Typ.)		2.6A/115Vac 1.3A/230Vac							
	INRUSH CURRENT (Typ.)		COLD START 15A/115Vac 30A/230Vac							
	LEAKAGE CURRENT		<1mA / 240Vac							
PROTECTION	OVERLOAD		105~130% rated output power Hiccup mode when output voltage <30%, recovers automatically after fault condition is removed Constant current limiting without shutdown within 30%~100% rated output voltage, recovers automatically after fault condition is removed							
	OVER VOLTAGE		Max. 18V		Max. 35V		Max. 50V		Max. 63V	
			Protection type : Hiccup mode, recovers automatically after fault condition is removed							
	OVER TEMPERATURE		Protection type : Shut down o/p voltage, recovers automatically after temperature goes down							
FUNCTION	DC OK RELAY CONTACT		Relay Contact Ratings (max.): 30Vdc/1A, 30Vac/0.5A resistive load							
ENVIRONMENT	WORKING TEMP.		-40 ~ +70℃ (Refer to "Derating Curve")							
	WORKING HUMIDITY		20 ~ 95% RH non-condensing							
	STORAGE TEMP., HUMIDITY		-40 ~ +85℃, 10 ~ 95% RH non-condensing							
	TEMP. COEFFICIENT		± 0.03% /℃ (0 ~ 50℃)							
	VIBRATION		Component: 10 ~ 500Hz, 2G 10min./1cycle, 60min. each along X, Y, Z axes; Mounting: Compliance to IEC60068-2-6							
SAFETY & EMC (Note 6)	SAFETY STANDARDS		UL61010; TUV BS EN/EN62368-1, BS EN/EN61558-1/-2-16, BS EN/EN61010; CB IEC62368-1, IEC61558-1, IEC61010; RCM AS/NZS 62368-1, AS/NZS 61558-1/-2-16; BSMI CNS15598-1; CCC GB4943.1; EAC TPTC004 approved; KC KC62368-1 and BIS IS13252 (Part 1):2010 certified, no stock ,contact sale for inquires							
	OVER VOLTAGE CATEGORY Note.4		IEC/EN 61558-1/-2-16 (OVC III, altitude up to 2000m) IEC/EN/UL 61010 (OVC II, altitude up to 5000m) IEC/EN 62368-1 (OVC II, altitude up to 5000m)							
	SAFETY EXTRA-LOW VOLTAGE(SELV)		IEC/EN 61558-2-16 (SELV) IEC/EN/UL 61010-2-201 (SELV) IEC/EN 62368-1 (SELV / ES1)							
	WITHSTAND VOLTAGE		I/P-O/P: 4KVac I/P-FG: 2KVac O/P-FG: 1.5KVac O/P-DC OK: 0.5KVac							
	ISOLATION RESISTANCE		I/P-O/P, I/P-FG, O/P-FG: 100M Ohms/500Vdc/25℃ / 70%RH							
	EMC EMISSION		Parameter		Standard		Test Level / Note			
			Conducted		BS EN/EN55032 (CISPR32) / BS EN/EN61204-3 / CNS15936		Class B			
			Radiated		BS EN/EN55032 (CISPR32) / BS EN/EN61204-3 / CNS15936		Class B			
			Harmonic Current		BS EN/EN61000-3-2		Class A			
			Voltage Flicker		BS EN/EN61000-3-3		-----			
EMC IMMUNITY		BS EN/EN55035, BS EN/EN61204-3, BS EN/EN61000-6-2(BS EN/EN50082-2)								
		Parameter		Standard		Test Level / Note				
		ESD		BS EN/EN61000-4-2		Level 3, 8KV air ; Level 2, 4KV contact; criteria A				
		Radiated		BS EN/EN61000-4-3		Level 3, 10V/m ; criteria A				
		EFT / Burst		BS EN/EN61000-4-4		Level 3, 2KV ; criteria A				
		Surge		BS EN/EN61000-4-5		Level 4, 2KV/Line-Line ;Level 4, 4KV/Line-Line-Chassis ;criteria A				
		Conducted		BS EN/EN61000-4-6		Level 3, 10V ; criteria A				
		Magnetic Field		BS EN/EN61000-4-8		Level 4, 30A/m ; criteria A				
OTHERS	MTBF		1723.2K hrs min. Telcordia SR-332 (Bellcore) ;		324.4K hrs min. MIL-HDBK-217F (25℃)					
	DIMENSION		40*125.2*116mm (W*H*D)							
	PACKING		610g; 16pcs/12.2Kg/1.27CUFT							
NOTE		1. All parameters NOT specially mentioned are measured at 230Vac input, rated load and 25℃ of ambient temperature. 2. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1 μ F & 47 μ F parallel capacitor. 3. Tolerance : includes set up tolerance, line regulation and load regulation. 4. The ambient temperature derating of 3.5℃/1000m with fanless models and of 5℃/1000m with fan models for operating altitude higher than 2000m(6500ft). 5. Installation clearances : 40mm on top, 20mm on the bottom, 5mm on the left and right side are recommended when loaded permanently with full power. In case the adjacent device is a heat source, 15mm clearance is recommended. 6. The power supply is considered a component which will be installed into a final equipment. The final equipment must be re-confirmed that it still meets EMC directives. (as available on https://www.meanwell.com/Upload/PDF/EMI_statement_en.pdf) ※ Product Liability Disclaimer : For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx								

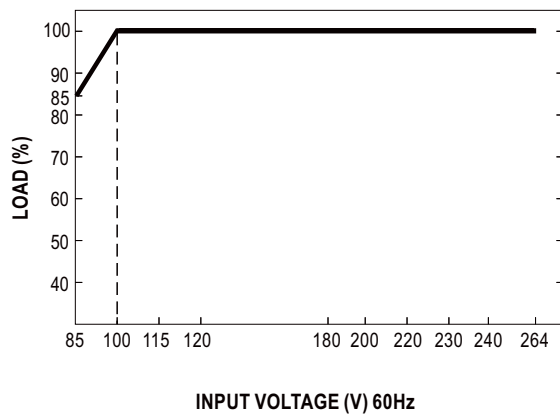
■ Block Diagram



■ Derating Curve



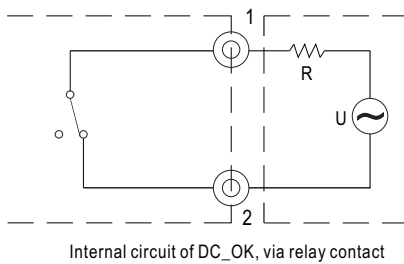
■ Static Characteristics



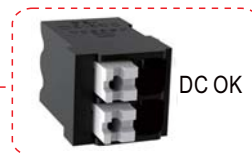
■ Function Manual

1.DC OK Relay Contact

Contact Close	PSU turns ON / DC OK.
Contact Open	PSU turns OFF / DC Fail.
Contact Ratings (max.)	30Vdc/1A, 30Vac/0.5A resistive load.



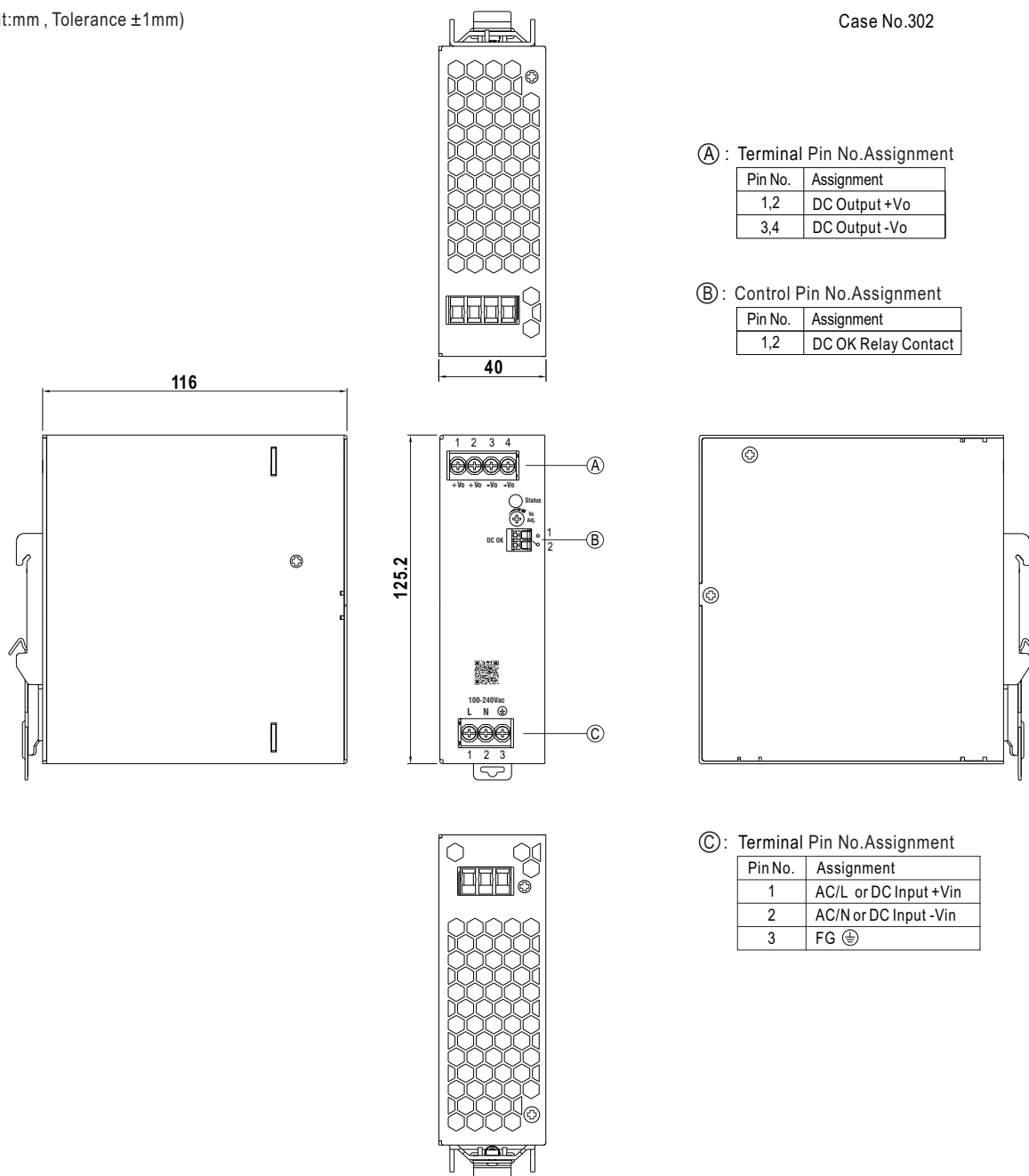
External voltage source (U) and resistor (R)
(The max. Sink is 30Vdc/1A, 30Vac/0.5A)



■ Mechanical Specification

(Unit:mm , Tolerance ± 1 mm)

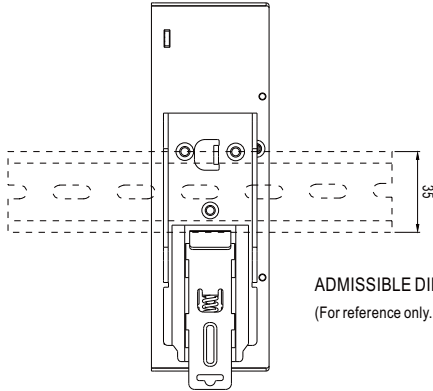
Case No.302



■ Recommend Wiring

		AC Input T.B	DC Output T.B	Signal connector
Solid Wire		6mm ² max.	6mm ² max.	1.5mm ² max.
A.W.G	XDR-240E-12	20~10 AWG	14~10 AWG	24~16 AWG
	XDR-240E-24/36/48		18~10 AWG	
Wire Stripping Length		7~8mm	7~8mm	8~9mm
Screw Terminal Torque		5 Lb-In	5 Lb-In	/

■ Installation Instruction

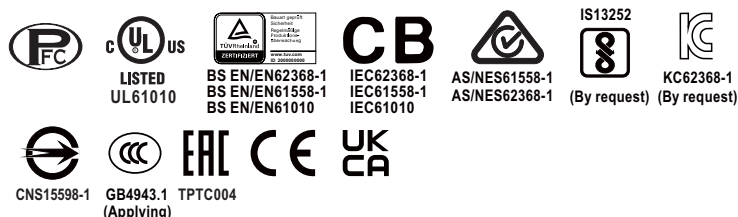


ADMISSIBLE DIN-RAIL: TS35/7.5 OR TS35/15
(For reference only. Not included with unit.)

This series fits DIN rail TS35/7.5 or TS35/15.
For installation details, please refer to the Instruction manual.

■ Installation Manual

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



■ Features

- 85~264Vac input with PFC
- Global certificates in multi-fields (ITE 62368-1, Industrial 61558-1/-2-16, 61010)
- 48mm slim width
- High efficiency up to 96% and no load power dissipation < 1.2W
- Built-in constant current limiting circuit
- Current sharing up to 1920W (3+1) for parallel use
- Protections: Short circuit / Overload / Over voltage / Over temperature
- Fanless design, cooling by free air convection
- Over voltage category III (OVC III)
- -40~+70°C wide range operation temperature (>+50°C derating)
- Operating altitude up to 5000 meters
- Built-in DC OK relay contact
- Can be installed on DIN rail TS-35/7.5 or 15
- 3 years warranty

■ Description

The XDR-480E series is a 480W AC/DC economical ultra slim industrial DIN rail power. Key features of this series include a narrow 48mm casing, optimizing system installation space, and an ultra-wide input range of 85~264Vac suitable for global use. It boasts a maximum efficiency of 96% and a low standby power consumption < 1.2W for energy savings and carbon reduction. It has built-in constant current, fanless design, a wide operating temperature range of -40 to +70°C (up to +50°C at full load); OVCIII compliance; parallel function capability up to 1920W; built-in DC OK signal. With comprehensive protection functions, complete safety certifications, and a 3-years warranty, the XDR-480E series is a compact, high-performance, and highly reliable DIN rail power supply.

■ Model Encoding

XDR - 480E - 24

- Output voltage(12V/24V/36V/48V)
- Economical version
- Output wattage
- Series name

■ Applications

- Industrial control system
- Semiconductor fabrication equipment
- Factory automation
- Electro-mechanical apparatus
- Battery charger

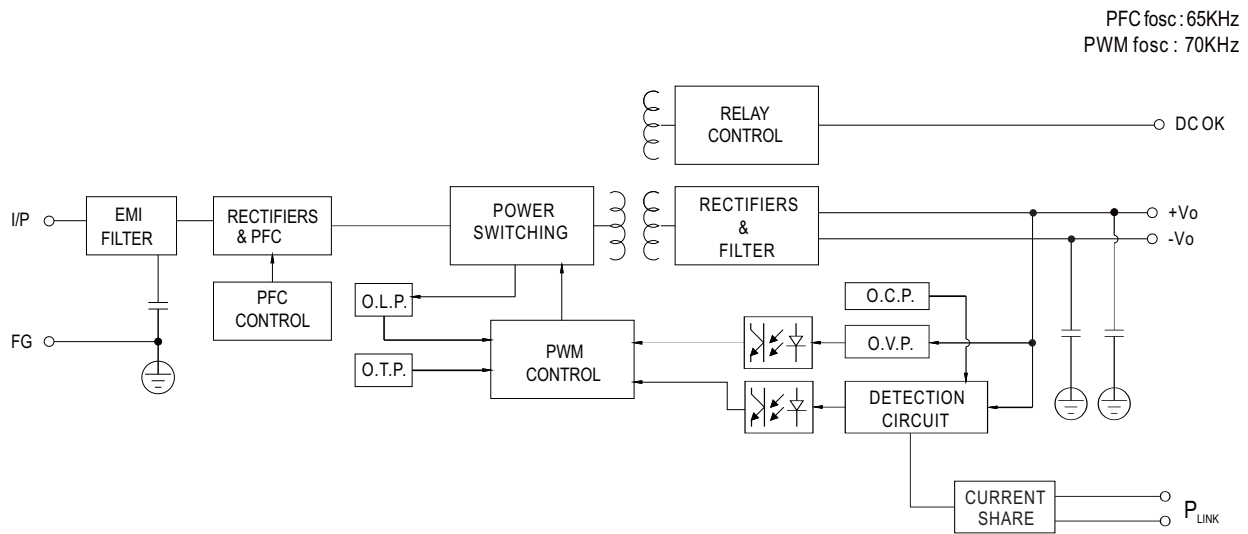
■ GTIN CODE

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

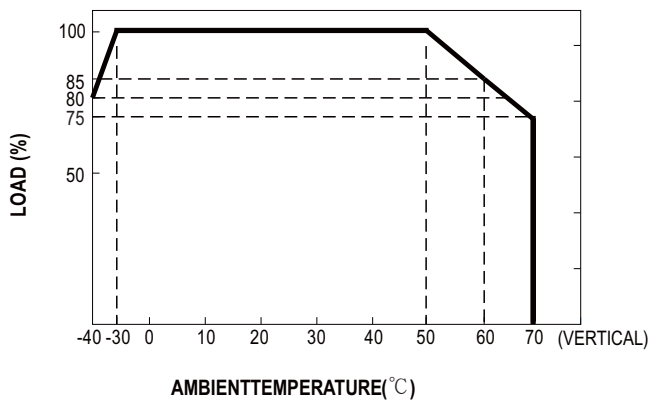
SPECIFICATION

MODEL	XDR-480E-12		XDR-480E-24		XDR-480E-36		XDR-480E-48			
OUTPUT	DC VOLTAGE	12V		24V		36V		48V		
	RATED CURRENT	30A		20A		13.3A		10A		
	CURRENT RANGE	0 ~ 30A		0 ~ 20A		0 ~ 13.3A		0 ~ 10A		
	RATED POWER	360W		480W		478.8W		480W		
	RIPPLE & NOISE (max.)	Note.2	100mVp-p		120mVp-p		150mVp-p		150mVp-p	
	VOLTAGE ADJ. RANGE		12 ~ 15V		24 ~ 29V		36 ~ 42V		48 ~ 55V	
	VOLTAGE TOLERANCE	Note.3	± 2.0%		± 1.0%		± 1.0%		± 1.0%	
	LINE REGULATION		± 0.5%		± 0.5%		± 0.5%		± 0.5%	
	LOAD REGULATION		± 1.0%		± 1.0%		± 1.0%		± 1.0%	
	SETUP, RISE TIME		1500ms, 150ms/230Vac		3000ms, 150ms/115Vac at full load					
HOLD UP TIME (Typ.)		15ms/230Vac		15ms/115Vac at full load						
INPUT	AC VOLTAGE RANGE	85 ~ 264Vac								
	DC VOLTAGE RANGE	120 ~ 370Vdc								
	NO LOAD POWER CONSUMPTION (Typ.)	1W @115Vac & 230Vac				1.2W @115Vac & 230Vac				
	FREQUENCY RANGE	47 ~ 63Hz								
	POWDR FACTOR (Typ.)	PF>0.95/230Vac PF>0.98/115Vac at full load								
	EFFICIENCY (Typ.)	94%		95.5%		95.5%		96%		
	AC CURRENT (Typ.)	6A/115Vac		3A/230Vac						
	INRUSH CURRENT (Typ.)	COLD START 15A/115Vac 30A/230Vac								
	LEAKAGE CURRENT	<1mA / 240Vac								
PROTECTION	OVERLOAD	105~130% rated output power Hiccup mode when output voltage <30%, recovers automatically after fault condition is removed Constant current limiting without shutdown within 30%~100% rated output voltage, recovers automatically after fault condition is removed								
	OVER VOLTAGE	Max. 18V		Max. 35V		Max. 50V		Max. 63V		
		Protection type : Hiccup mode, recovers automatically after fault condition is removed.								
	OVER TEMPERATURE	Protection type : Shut down o/p voltage, recovers automatically after temperature goes down								
FUNCTION	PARALLEL (Droop Mode)	Up to 1920WMax (3+1) units;Please refer to Function Manual for more details								
	DC OK RELAY CONTACT	Relay Contact Ratings (max.):30Vdc/1A, 30Vac/0.5A resistive load								
ENVIRONMENT	WORKING TEMP.	-40 ~ +70℃ (Refer to "Derating Curve")								
	WORKING HUMIDITY	20 ~ 95% RH non-condensing								
	STORAGE TEMP., HUMIDITY	-40 ~ +85℃, 10 ~ 95% RH non-condensing								
	TEMP. COEFFICIENT	± 0.03% /℃ (0 ~ 50℃)								
	VIBRATION	Component:10 ~ 500Hz, 2G 10min./1cycle, 60min. each along X, Y, Z axes; Mounting: Compliance to IEC60068-2-6								
SAFETY & EMC (Note 6)	SAFETY STANDARDS	UL61010; TUV BS EN/EN62368-1, BS EN/EN61558-1/-2-16, BS EN/EN61010; CB IEC62368-1, IEC61558-1, IEC61010; RCM AS/NZS 62368-1, AS/NZS 61558-1/-2-16; BSMI CNS15598-1; CCC GB4943.1; EAC TPTC004 approved; KC KC62368-1 and BIS IS13252 (Part 1):2010 certified, no stock ,contact sale for inquires								
	OVER VOLTAGE CATEGORY	Note.4	IEC/EN 61558-1/-2-16 (OVC III, altitude up to 2000m) IEC/EN/UL 61010 (OVC II, altitude up to 5000m) IEC/EN 62368-1 (OVC II, altitude up to 5000m)							
	SAFETY EXTRA-LOW VOLTAGE(SELV)		IEC/EN 61558-2-16 (SELV) IEC/EN/UL 61010-2-201 (SELV) IEC/EN 62368-1 (SELV / ES1)							
	WITHSTAND VOLTAGE		I/P-O/P: 4KVac I/P-FG: 2KVac O/P-FG: 1.5KVac O/P-DC OK: 0.5KVac							
	ISOLATION RESISTANCE		I/P-O/P, I/P-FG, O/P-FG: 100M Ohms/500Vdc/25℃ / 70%RH							
	EMC EMISSION	Parameter	Standard				Test Level / Note			
		Conducted	BS EN/EN55032 (CISPR32) / BS EN/EN61204-3 / CNS15936				Class B			
		Radiated	BS EN/EN55032 (CISPR32) / BS EN/EN61204-3 / CNS15936				Class B			
		Harmonic Current	BS EN/EN61000-3-2				Class A			
		Voltage Flicker	BS EN/EN61000-3-3				-----			
	EMC IMMUNITY	BS EN/EN55035, BS EN/EN61204-3, BS EN/EN61000-6-2(BS EN/EN50082-2)								
		Parameter	Standard				Test Level / Note			
		ESD	BS EN/EN61000-4-2				Level 3, 8KV air ; Level 2, 4KV contact; criteria A			
		Radiated	BS EN/EN61000-4-3				Level 3, 10V/m ; criteria A			
EFT / Burst		BS EN/EN61000-4-4				Level 3, 2KV ; criteria A				
Surge		BS EN/EN61000-4-5				Level 4, 2KV/Line-Line ;Level 4, 4KV/Line-Line-Chassis ;criteria A				
Conducted		BS EN/EN61000-4-6				Level 3, 10V ; criteria A				
Magnetic Field		BS EN/EN61000-4-8				Level 4, 30A/m ; criteria A				
OTHERS	MTBF	1482.0K hrs min. Telcordia SR-332 (Bellcore) ; 258.3K hrs min. MIL-HDBK-217F (25℃)								
	DIMENSION	48*125.2*125mm (W*H*D)								
	PACKING	890g; 12pcs/13Kg/1.16CUFT								
NOTE	1. All parameters NOT specially mentioned are measured at 230Vac input, rated load and 25℃ of ambient temperature. 2. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1 μ F & 47 μ F parallel capacitor. 3. Tolerance : includes set up tolerance, line regulation and load regulation. 4. The ambient temperature derating of 3.5℃/1000m with fanless models and of 5℃/1000m with fan models for operating altitude higher than 2000m(6500ft). 5. Installation clearances : 40mm on top, 20mm on the bottom, 5mm on the left and right side are recommended when loaded permanently with full power. In case the adjacent device is a heat source, 15mm clearance is recommended. 6. The power supply is considered a component which will be installed into a final equipment. The final equipment must be re-confirmed that it still meets EMC directives. (as available on https://www.meanwell.com/Upload/PDF/EMI_statement_en.pdf) ※ Product Liability Disclaimer : For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx									

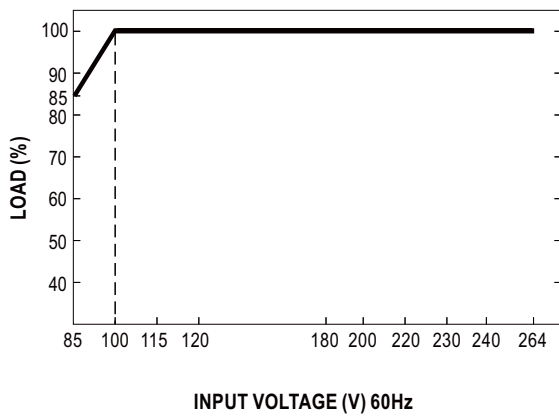
■ Block Diagram



■ Derating Curve



■ Static Characteristics

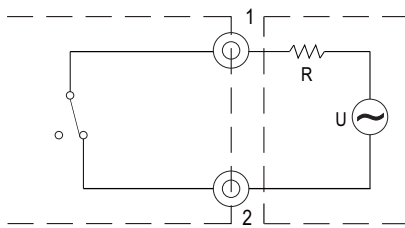


Function Manual

Pin No.	Function	Description
1,2	DC OK Relay Contact	Contact Close: PSU turns ON/DC_OK Contact Open: PSU turns OFF/DC_fail
3,4	Paraller Use Link(P _{LINK})	P _{LINK} should be short to enable droop parallel use.(Default disable)

1.DC OK Relay Contact

Contact Close	PSU turns ON/DC OK.
Contact Open	PSU turns OFF/DC Fail.
Contact Ratings (max.)	30Vdc/1A, 30Vac/0.5A resistive load.



External voltage source (U) and resistor (R)
(The max. Sink is 30Vdc/1A, 30Vac/0.5A)

Internal circuit of DC_OK, via relay contact

2.Parallel Use

XDR-480E has the built-in **droop mode current sharing** function and can be connected in parallel, up to 4 units, to provide higher output power as exhibited below :

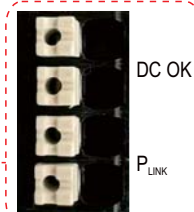
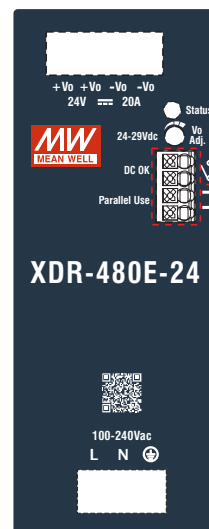
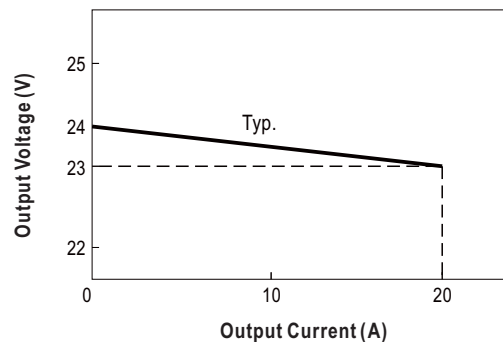
- (1) Difference of output voltages among parallel units should be less than **0.1V**.
- (2) The total output current must not exceed the value determined by the following equation (Output current at parallel operation)=(The rated current per unit) x (Number of unit) x 0.9.
- (3) In parallel operation 4 units is the maximum, please consult the manufacture for other applications.
- (4) The power supplies should be paralleled using short and large diameter wiring and then connected to the load.
- (5) When in parallel operation, the minimum output load should be greater than 7% of total output load. (Min. load >7% rated current per unit x number of unit)
- (6) In parallel connection, maybe only one unit (master) operate if the total output load is less than 7% of rated load condition.
The other PSUs (slaves) may go into standby mode and their output LEDs & relays will not turn on.
- (7) **P_{LINK} lines should be shorted locally.**
- (8) In parallel operation, after overload or short circuit fault occurs, re-power on to recover.
- (9) The "Parallel Use" mode regulates the output voltage in such a manner that the rated load is approx. 4% lower than the no-load voltage (12V:approx.7%).

For example XDR-480E-24:

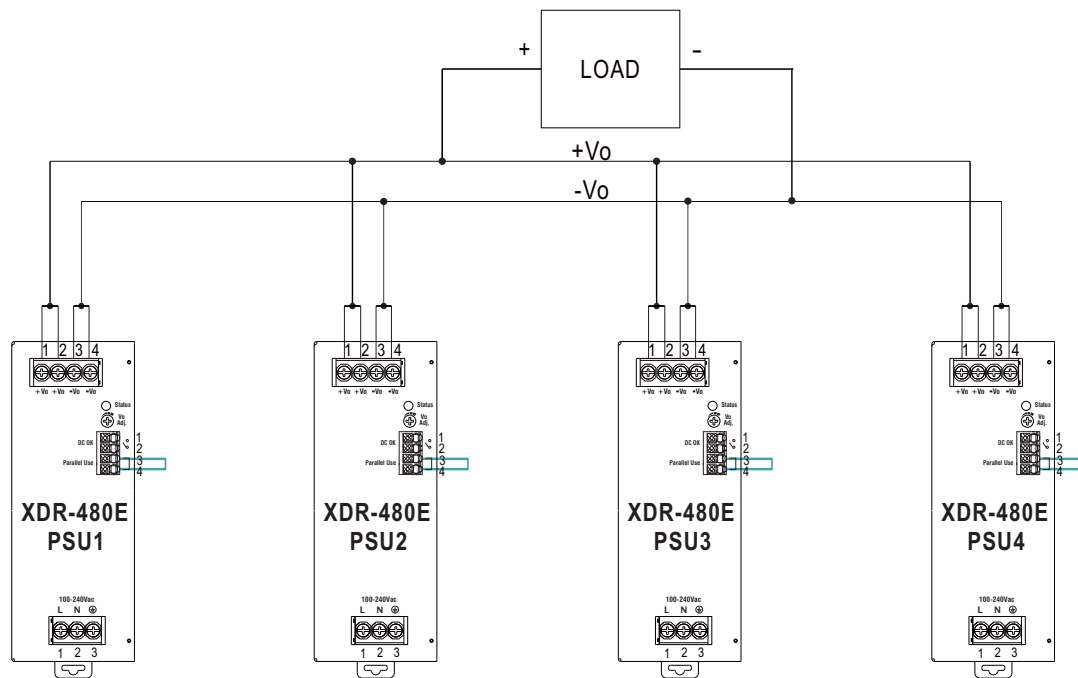
No load output voltage=24V

Normal load output current=20A

0~100% load output voltage=24V~23V



Enable : P_{LINK} should be short

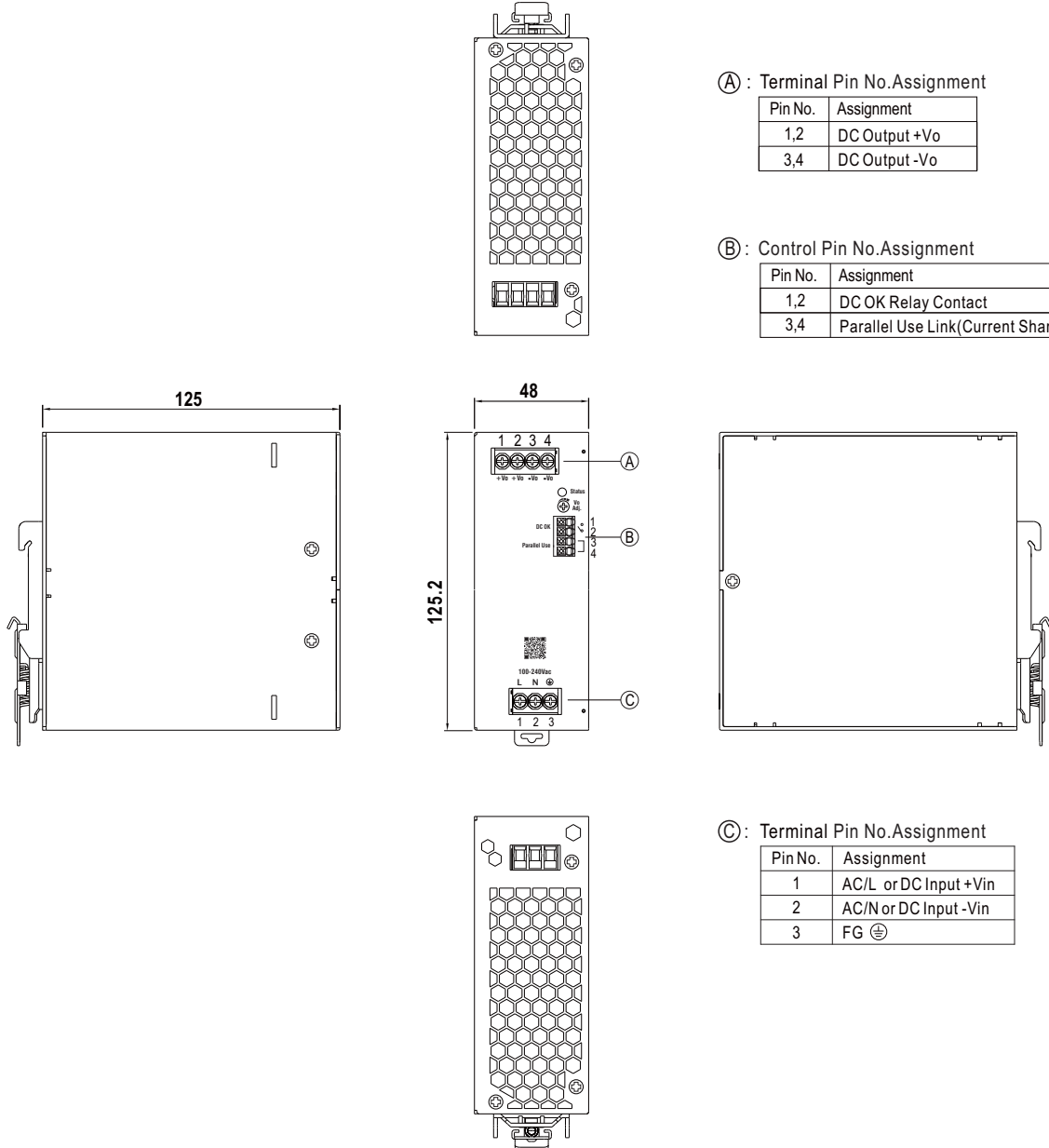


※ Please contact MEAN WELL for more details.

■ Mechanical Specification

(Unit:mm , Tolerance $\pm 1\text{mm}$)

Case No.303



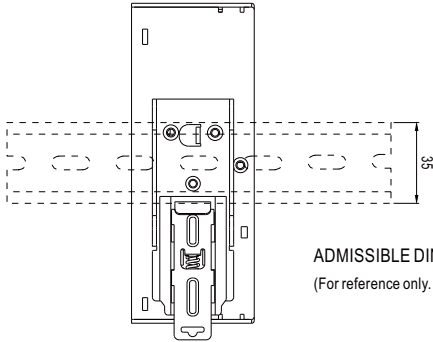
■ Recommend Wiring

		AC Input T.B	DC Output T.B	Signal connector
Solid Wire		6mm ² max.	6mm ² max.	1.5mm ² max.
A.W.G	XDR-480E-12	18~10 AWG	12~10 AWG	24~16 AWG
	XDR-480E-24/36/48		16~10 AWG	
Wire Stripping Length		10~11mm	10~11mm	8~9mm
Screw Terminal Torque		5 Lb-In	5 Lb-In	/



480W AC/DC Economical Ultra Slim Industrial DIN Rail Power **XDR-480E** series

■ Installation Instruction



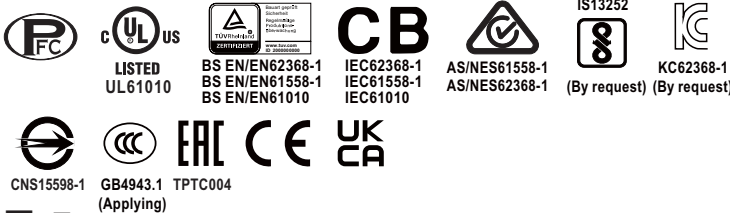
ADMISSIBLE DIN-RAIL: TS35/7.5 OR TS35/15
(For reference only. Not included with unit.)

This series fits DIN rail TS35/7.5 or TS35/15.

For installation details, please refer to the Instruction manual.

■ Installation Manual

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



Features

- 180~264Vac input with PFC
- Global certificates in multi-fields (ITE 62368-1, Industrial 61558-1/-2-16, 61010)
- 96mm slim width
- High efficiency up to 95.5% and no load power dissipation <3.6W
- Built-in constant current limiting circuit
- Current sharing up to 3840W (3+1) for parallel use
- Protections: Short circuit / Overload / Over voltage / Over temperature
- Fanless design, cooling by free air convection
- Over voltage category III (OVC III)
- -40~+70°C wide range operation temperature (>+50°C derating)
- Operating altitude up to 5000 meters
- Built-in DC OK relay contact
- Can be installed on DIN rail TS-35/7.5 or 15
- 3 years warranty

Description

The XDR-960E series is a 960W AC/DC economical ultra slim industrial DIN rail power. Key features of this series include a narrow 96mm casing, optimizing system installation space. It boasts a maximum efficiency of 95.5% and a low standby power consumption <3.6W for energy savings and carbon reduction. It has built-in constant current, fanless design, a wide operating temperature range of -40 to +70°C (up to +50°C at full load); OVCIll compliance; parallel function capability up to 3840W; built-in DC OK signal. With comprehensive protection functions, complete safety certifications, and a 3-years warranty, the XDR-960E series is a compact, high-performance, and highly reliable DIN rail power supply.

Model Encoding

XDR - 960E - 24

- Output voltage(24V/36V/48V)
- Economical version
- Output wattage
- Series name

Applications

- Industrial control system
- Semiconductor fabrication equipment
- Factory automation
- Electro-mechanical apparatus
- Battery charger

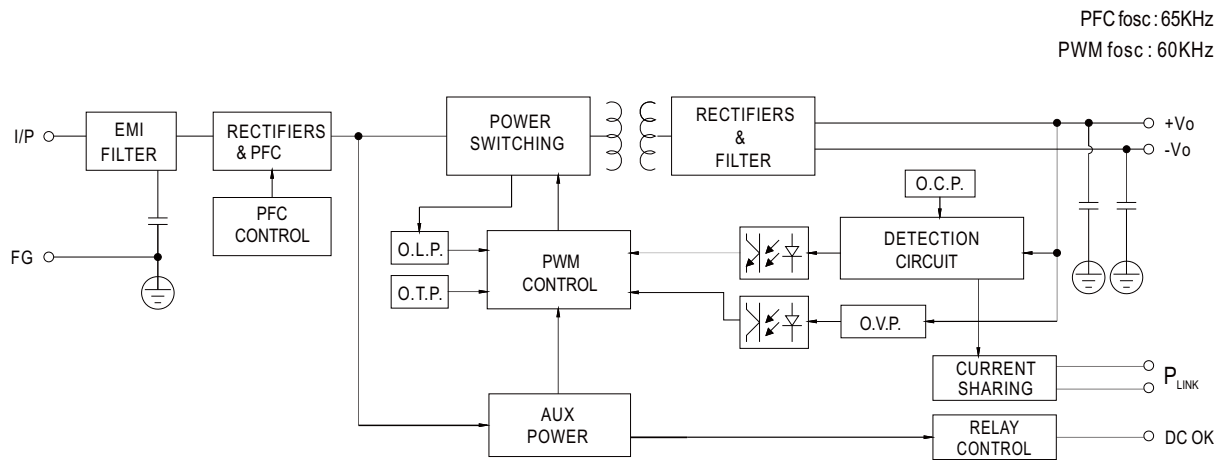
GTIN CODE

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

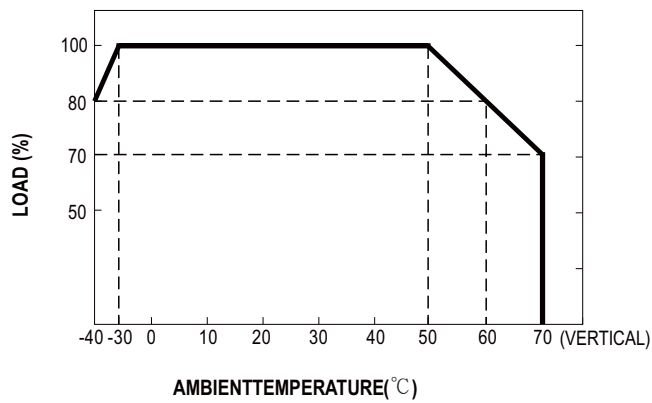
SPECIFICATION

MODEL		XDR-960E-24	XDR-960E-36	XDR-960E-48	
OUTPUT	DC VOLTAGE	24V	36V	48V	
	RATED CURRENT	40A	26.6A	20A	
	CURRENT RANGE	0 ~ 40A	0 ~ 26.6A	0 ~ 20A	
	RATED POWER	960W	957.6W	960W	
	RIPPLE & NOISE (max.) Note.2	120mVp-p	150mVp-p	150mVp-p	
	VOLTAGE ADJ. RANGE	24 ~ 29V	36 ~ 42V	48 ~ 55V	
	VOLTAGE TOLERANCE Note.3	± 1.0%	± 1.0%	± 1.0%	
	LINE REGULATION	± 0.5%	± 0.5%	± 0.5%	
	LOAD REGULATION	± 1.0%	± 1.0%	± 1.0%	
	SETUP, RISE TIME	500ms, 50ms/230Vac at full load			
	HOLD UP TIME (Typ.)	15ms/230Vac at full load			
INPUT	AC VOLTAGE RANGE	180 ~ 264Vac			
	DC VOLTAGE RANGE	254.5 ~ 370Vdc			
	NO LOAD POWER CONSUMPTION (Typ.)	2.7W @ 230Vac	3.6W @ 230Vac		
	FREQUENCY RANGE	47 ~ 63Hz			
	POWDR FACTOR (Typ.)	PF>0.95/230Vac at full load			
	EFFICIENCY (Typ.)	94.5%	95%	95.5%	
	AC CURRENT (Typ.)	4.5A/230Vac			
	INRUSH CURRENT (Typ.)	COLD START 30A/230Vac			
	LEAKAGE CURRENT	<3.5mA / 240Vac			
PROTECTION	OVERLOAD	105~130% rated output power Hiccup mode when output voltage <30%, recovers automatically after fault condition is removed Constant current limiting without shutdown within 30%~100% rated output voltage, recovers automatically after fault condition is removed			
	OVER VOLTAGE	30 ~ 34V	43 ~ 50V	56 ~ 65V	
		Protection type : Shut down o/p voltage, re-power on to recover			
	OVER TEMPERATURE	Protection type : Shut down o/p voltage, recovers automatically after temperature goes down			
FUNCTION	PARALLEL(Droop Mode)	Up to 3840W or (3+1) units;Please refer to Function Manual for more details			
	DC OK RELAY CONTACT	Relay Contact Ratings (max.):30Vdc/1A, 30Vac/0.5A resistive load			
ENVIRONMENT	WORKING TEMP.	-40 ~ +70℃ (Refer to "Derating Curve")			
	WORKING HUMIDITY	20 ~ 95% RH non-condensing			
	STORAGE TEMP., HUMIDITY	-40 ~ +85℃, 10 ~ 95% RH non-condensing			
	TEMP. COEFFICIENT	± 0.03% /℃ (0 ~ 50℃)			
	VIBRATION	Component:10 ~ 500Hz, 2G 10min./1cycle, 60min. each along X, Y, Z axes; Mounting: Compliance to IEC60068-2-6			
SAFETY & EMC (Note 6)	SAFETY STANDARDS	UL61010; TUV BS EN/EN62368-1, BS EN/EN61558-1/-2-16, BS EN/EN61010; CB IEC62368-1, IEC61558-1, IEC61010; RCM AS/NZS 62368-1, AS/NZS 61558-1/-2-16; BSMI CNS15598-1; CCC GB4943.1; EAC TPTC004 approved; KC KC62368-1 and BIS IS13252 (Part 1):2010 certified, no stock ,contact sale for inquires			
	OVER VOLTAGE CATEGORY Note.4	IEC/EN 61558-1/-2-16 (OVC III, altitude up to 2000m) IEC/EN/UL 61010 (OVC II, altitude up to 5000m) IEC/EN 62368-1 (OVC II, altitude up to 5000m)			
	SAFETY EXTRA-LOW VOLTAGE(SELV)	IEC/EN 61558-2-16 (SELV) IEC/EN/UL 61010-2-201 (SELV) IEC/EN 62368-1 (SELV / ES1)			
	WITHSTAND VOLTAGE	I/P-O/P: 4KVac I/P-FG: 2KVac O/P-FG: 1.5KVac O/P-DC OK: 0.5KVac			
	ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG: 100M Ohms/500VDC/25℃ / 70%RH			
	EMC EMISSION	Parameter	Standard		Test Level / Note
		Conducted	BS EN/EN55032 (CISPR32) / BS EN/EN61204-3 / CNS15936		Class B
		Radiated	BS EN/EN55032 (CISPR32) / BS EN/EN61204-3 / CNS15936		Class B
		Harmonic Current	BS EN/EN61000-3-2		Class A
		Voltage Flicker	BS EN/EN61000-3-2		-----
	EMC IMMUNITY	BS EN/EN55035, BS EN/EN61204-3, BS EN/EN61000-6-2(BS EN/EN50082-2)			
		Parameter	Standard		Test Level / Note
		ESD	BS EN/EN61000-4-2		Level 3, 8KV air ; Level 3, 4KV contact; criteria A
Radiated		BS EN/EN61000-4-3		Level 3, 10V/m ; criteria A	
EFT / Burst		BS EN/EN61000-4-4		Level 2, 2KV ; criteria A	
Surge		BS EN/EN61000-4-5		Level 4, 2KV/Line-Line ;Level 4, 4KV/Line-Line-Chassis ;criteria A	
Conducted		BS EN/EN61000-4-6		Level 3, 10V ; criteria A	
Magnetic Field		BS EN/EN61000-4-8		Level 4, 30A/m ; criteria A	
OTHERS	MTBF	K hrs min. Telcordia SR-332 (Bellcore) ; K hrs min. MIL-HDBK-217F (25℃)			
	DIMENSION	96*125.2*132mm (W*H*D)			
	PACKING	Kg; pcs/Kg/CUFT			
NOTE	1. All parameters NOT specially mentioned are measured at 230Vac input, rated load and 25℃ of ambient temperature. 2. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1 μ F & 47 μ F parallel capacitor. 3. Tolerance : includes set up tolerance, line regulation and load regulation. 4. The ambient temperature derating of 3.5℃/1000m with fanless models and of 5℃/1000m with fan models for operating altitude higher than 2000m(6500ft). 5. Installation clearances : 40mm on top, 20mm on the bottom, 5mm on the left and right side are recommended when loaded permanently with full power. In case the adjacent device is a heat source, 15mm clearance is recommended. 6. The power supply is considered a component which will be installed into a final equipment. The final equipment must be re-confirmed that it still meets EMC directives. (as available on https://www.meanwell.com/Upload/PDF/EMI_statement_en.pdf) ※ Product Liability Disclaimer : For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx				

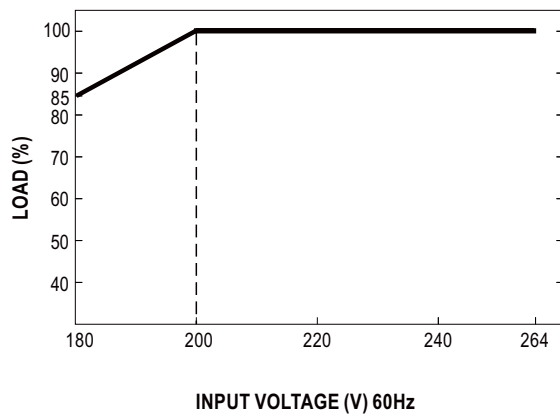
■ Block Diagram



■ Derating Curve



■ Static Characteristics

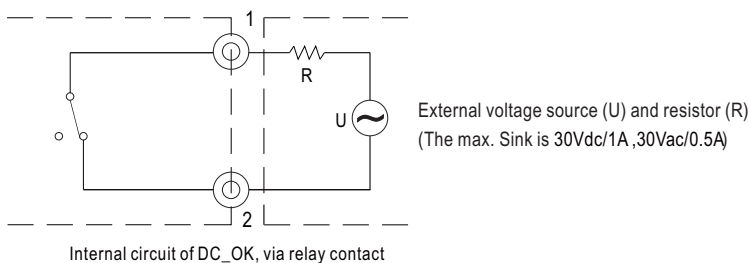


Function Manual

Pin No.	Function	Description
1,2	DC OK Relay Contact	Contact Close: PSU turns ON/DC_OK Contact Open: PSU turns OFF/DC_fail
3,4	Paraller Use Link(P _{LINK})	P _{LINK} should be short to enable droop parallel use.(Default disable)

1.DC OK Relay Contact

Contact Close	PSU turns ON/DC OK.
Contact Open	PSU turns OFF/DC Fail.
Contact Ratings (max.)	30Vdc/1A, 30Vac/0.5A resistive load.



2.Parallel Use

XDR-960E has the built-in **droop mode current sharing** function and can be connected in parallel, up to 4 units, to provide higher output power as exhibited below :

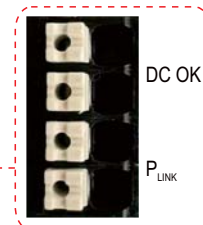
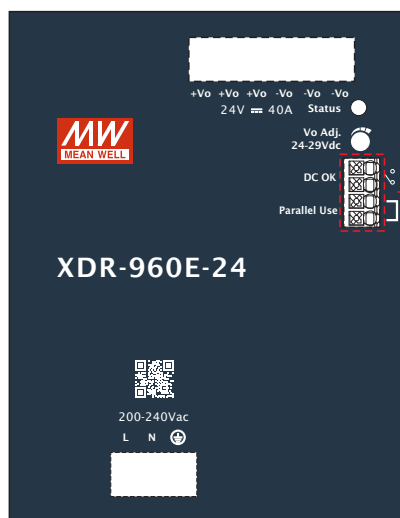
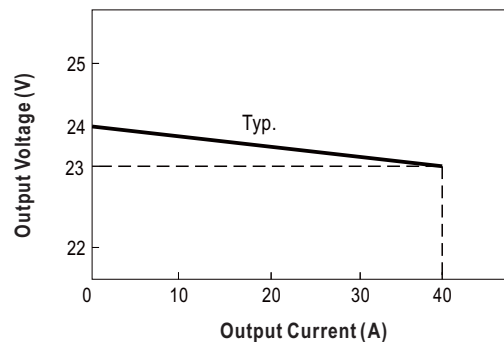
- (1) Difference of output voltages among parallel units should be less than **0.1V**.
- (2) The total output current must not exceed the value determined by the following equation (Output current at parallel operation)=(The rated current per unit) x (Number of unit) x 0.9.
- (3) In parallel operation 4 units is the maximum, please consult the manufacture for other applications.
- (4) The power supplies should be paralleled using short and large diameter wiring and then connected to the load.
- (5) When in parallel operation, the minimum output load should be greater than 7% of total output load. (Min. load >7% rated current per unit x number of unit)
- (6) In parallel connection, maybe only one unit (master) operate if the total output load is less than 7% of rated load condition.
The other PSUs (slaves) may go into standby mode and their output LEDs & relays will not turn on.
- (7) **P_{LINK} lines should be shorted locally.**
- (8) The "Parallel Use" mode regulates the output voltage in such a manner that the voltage at no load is approx. 4% higher than at normal load.

For example XDR-960E-24:

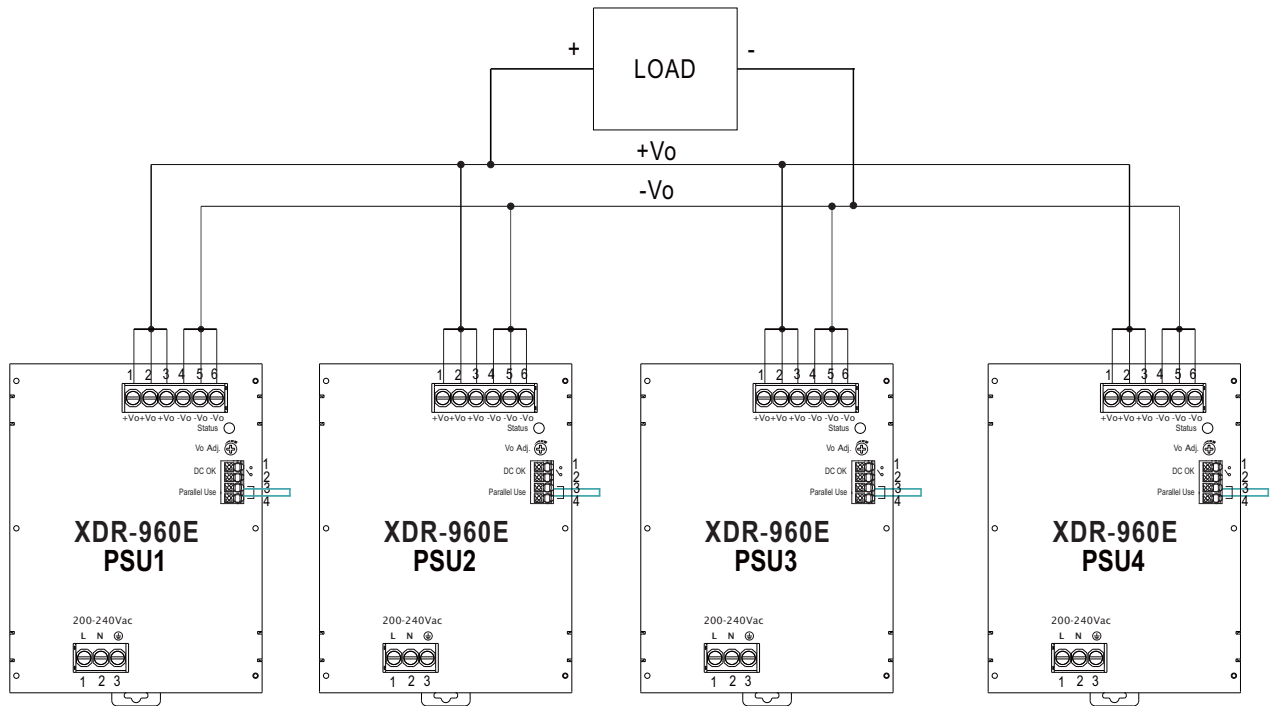
No load output voltage=24V

Normal load output current=40A

0~100% load output voltage=24V~23V



Enable : P_{LINK} should be short

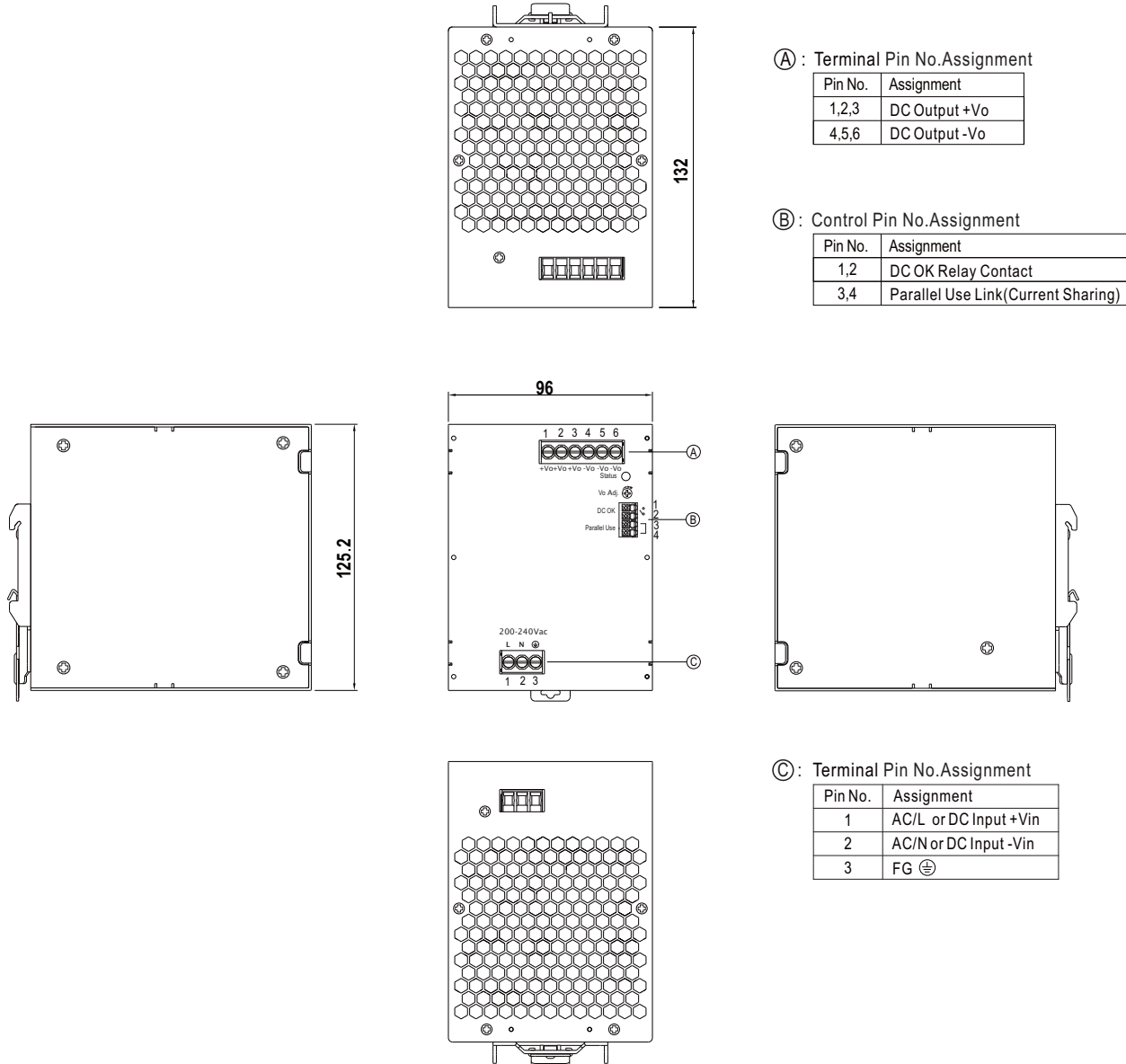


※ Please contact MEAN WELL for more details.

Mechanical Specification

(Unit:mm , Tolerance ± 1 mm)

Case No. 304



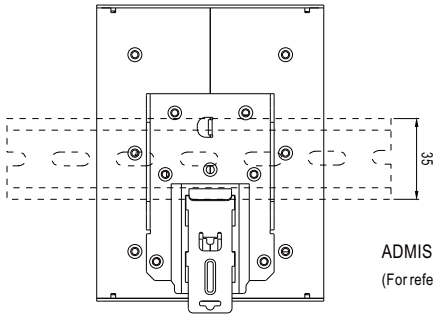
Recommend Wiring

	AC Input T.B	DC Output T.B	Signal connector
Solid Wire	6mm ² max.	6mm ² max.	1.5mm ² max.
A.W.G	18~10 AWG	18~8 AWG	24~16 AWG
Screw Terminal Torque	9 Lb-In	9 Lb-In	/



960W AC/DC Economical Ultra Slim Industrial DIN Rail Power **XDR-960E** series

■ Installation Instruction



This series fits DIN rail TS35/7.5 or TS35/15.
For installation details, please refer to the Instruction manual.

ADMISSIBLE DIN-RAIL: TS35/7.5 OR TS35/15
(For reference only. Not included with unit.)

■ Installation Manual

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