

**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

**Applications**

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

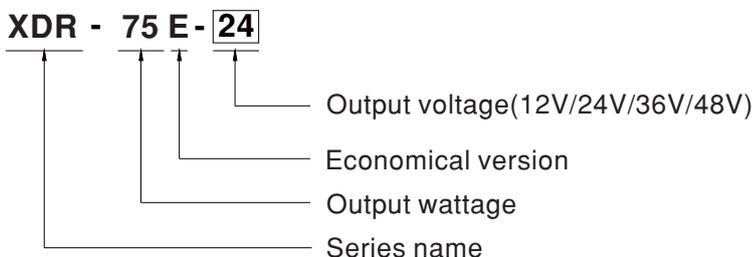
**GTIN CODE**

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

**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**

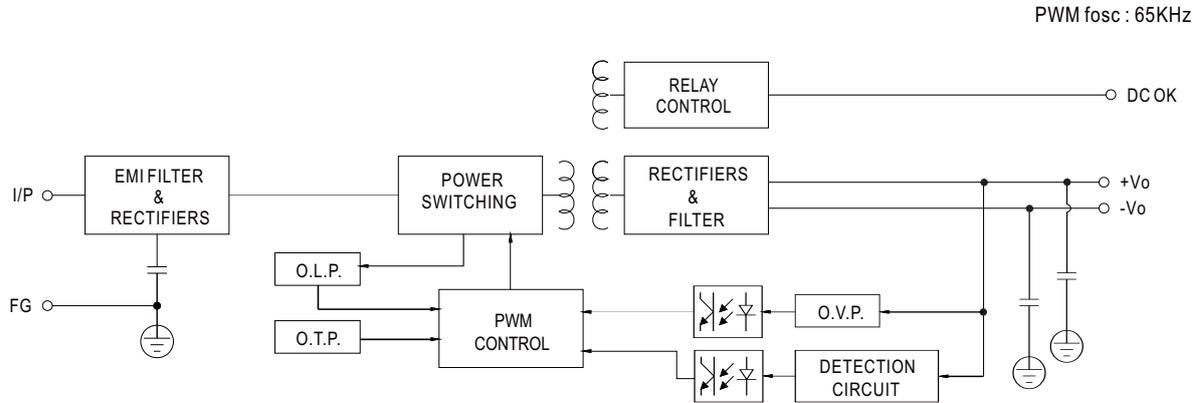




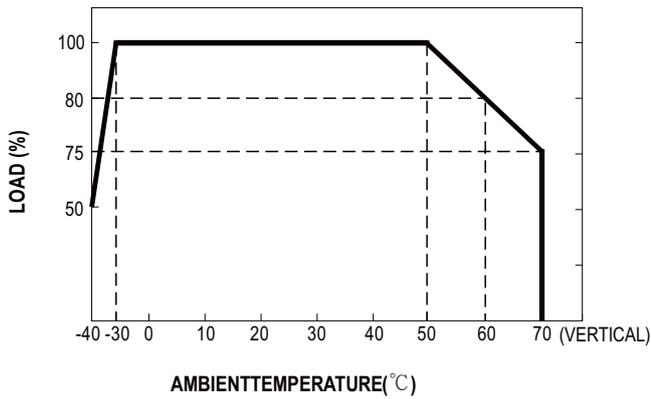
## SPECIFICATION

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.)	0.7W @115Vac & 230Vac		1W @115Vac & 230Vac	
	FREQUENCY RANGE	47 ~ 63Hz			
	EFFICIENCY (Typ.)	89%		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°C (Refer to "Derating Curve")			
	WORKING HUMIDITY	20 ~ 95% RH non-condensing			
	STORAGE TEMP., HUMIDITY	-40 ~ +85°C, 10 ~ 95% RH non-condensing			
	TEMP. COEFFICIENT	± 0.03% /°C (0 ~ 50°C)			
	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; <b>KC KC62368-1 and BIS IS13252 (Part 1):2010 certified, no stock ,contact sale for inquires</b>			
	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°C/ 70%RH			
	EMC EMISSION		Parameter	Standard	Test Level / Note
			Conducted	BS EN/EN55032 (CISPR32) / CNS15936	Class B
			Radiated	BS EN/EN55032 (CISPR32) / 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	2425.7K hrs min.    Telcordia SR-332 (Bellcore) ;    533.7K hrs min.    MIL-HDBK-217F (25°C)			
	DIMENSION	30*125.2*116mm (W*H*D)			
	PACKING	400g; 24pcs/10.6Kg/1.27CUFT			
NOTE	<p>1. All parameters NOT specially mentioned are measured at 230Vac input, rated load and 25°C of ambient temperature.</p> <p>2. Ripple &amp; noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1 μ F &amp; 47 μ F parallel capacitor.</p> <p>3. Tolerance : includes set up tolerance, line regulation and load regulation.</p> <p>4. The ambient temperature derating of 3.5°C/1000m with fanless models and of 5°C/1000m with fan models for operating altitude higher than 2000m(6500ft).</p> <p>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.</p> <p>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 <a href="https://www.meanwell.com/Upload/PDF/EMI_statement_en.pdf">https://www.meanwell.com/Upload/PDF/EMI_statement_en.pdf</a> )</p> <p>※ Product Liability Disclaimer : For detailed information, please refer to <a href="https://www.meanwell.com/serviceDisclaimer.aspx">https://www.meanwell.com/serviceDisclaimer.aspx</a></p>				

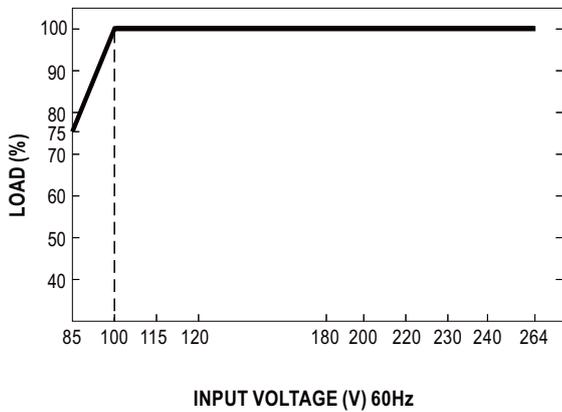
■ Block Diagram



■ Derating Curve



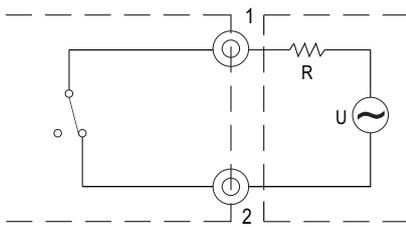
■ Static Characteristics



■ **Function Manual**

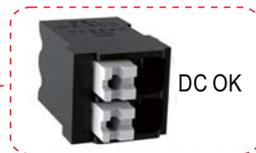
**1. DC OK Relay Contact**

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)

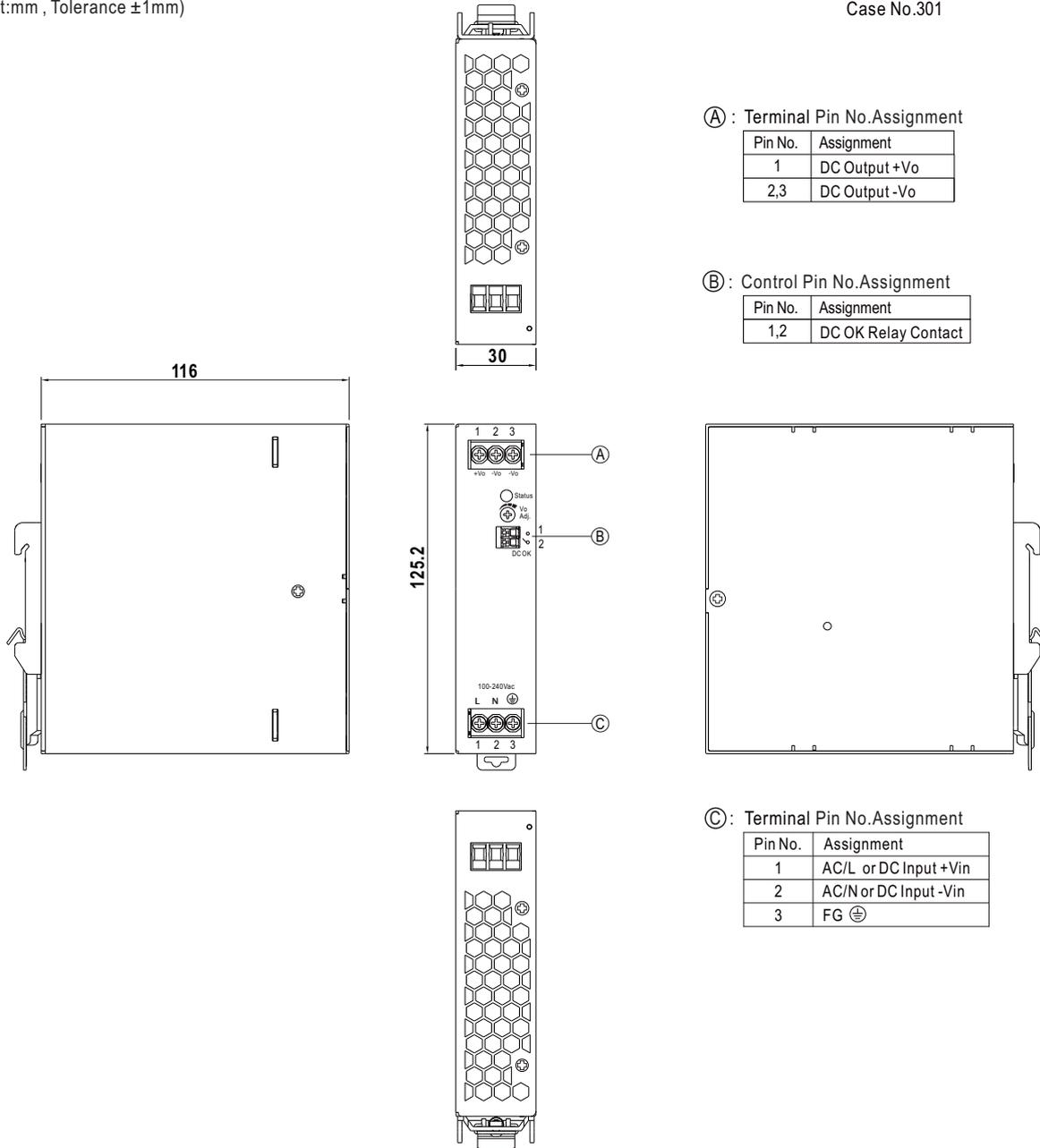
Internal circuit of DC\_OK, via relay contact



**■ Mechanical Specification**

(Unit:mm , Tolerance  $\pm 1$ mm)

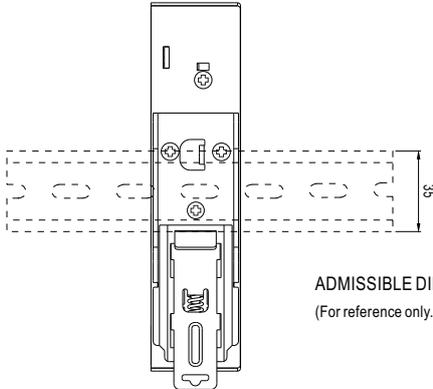
Case No.301



**■ Recommend Wiring**

	AC Input T.B	DC Output T.B	Signal connector
Solid Wire	6mm <sup>2</sup> max.	6mm <sup>2</sup> max.	1.5mm <sup>2</sup> max.
A.W.G	22~10 AWG	22~10 AWG	24~16 AWG
Screw Terminal Torque	5 Lb-In	5 Lb-In	/

■ **Installation Instruction**

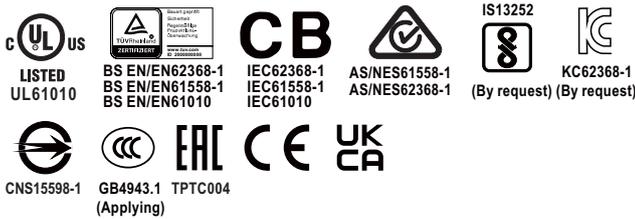


ADMISSIBLE DIN-RAIL: TS35/7.5 OR TS35/15  
(For reference only. Not included with unit.)

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

**Applications**

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

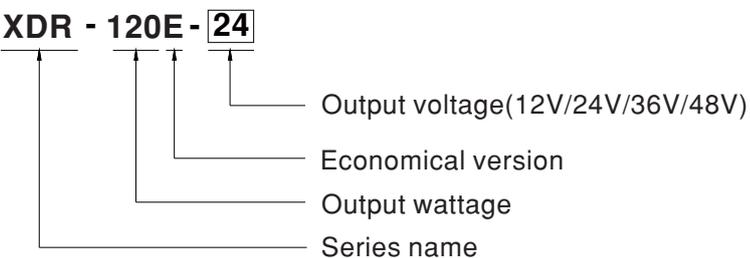
**GTIN CODE**

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

**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.

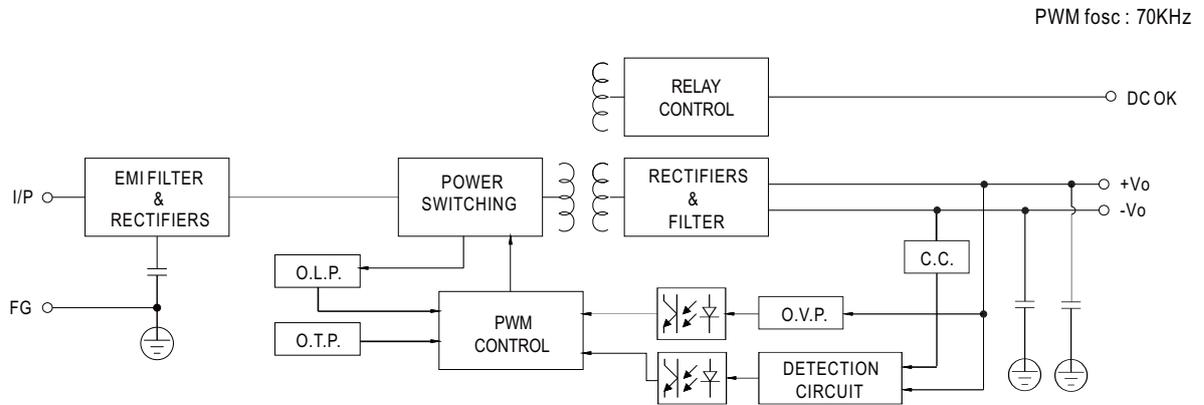
**Model Encoding**



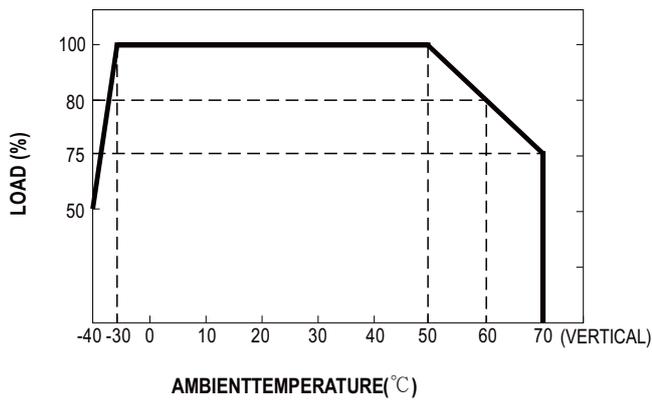
## SPECIFICATION

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.) <small>Note.2</small>	100mVp-p	120mVp-p	150mVp-p	150mVp-p	
	VOLTAGE ADJ. RANGE	12 ~ 15V	24 ~ 29V	36 ~ 42V	48 ~ 55V	
	VOLTAGE TOLERANCE <small>Note.3</small>	±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.)	0.9W @115Vac & 230Vac		1W @115Vac & 230Vac		
	FREQUENCY RANGE	47 ~ 63Hz				
	EFFICIENCY (Typ.)	89%	91%	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	56 ~ 65V	
	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. <small>Note.4</small>	-40 ~ +70°C (Refer to "Derating Curve")				
	WORKING HUMIDITY	20 ~ 95% RH non-condensing				
	STORAGE TEMP., HUMIDITY	-40 ~ +85°C, 10 ~ 95% RH non-condensing				
	TEMP. COEFFICIENT	±0.03% /°C (0 ~ 50°C)				
	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; <b>KC KC62368-1 and BIS IS13252 (Part 1):2010 certified, no stock ,contact sale for inquires</b>				
	OVER VOLTAGE CATEGORY <small>Note.5</small>	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°C / 70%RH				
	EMC EMISSION	<b>Parameter</b>		<b>Standard</b>	<b>Test Level / Note</b>	
		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)					
	<b>Parameter</b>		<b>Standard</b>	<b>Test Level / Note</b>		
	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	2223.1K hrs min.    Telcordia SR-332 (Bellcore) ;		440.4K hrs min.    MIL-HDBK-217F (25°C)		
	DIMENSION	<b>30*125.2*116mm (W*H*D)</b>				
	PACKING	420g; 24pcs/11.1Kg/1.27CUFT				
NOTE	<p>1. All parameters NOT specially mentioned are measured at 230Vac input, rated load and 25°C of ambient temperature.</p> <p>2. Ripple &amp; noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1 μ F &amp; 47 μ F parallel capacitor.</p> <p>3. Tolerance : includes set up tolerance, line regulation and load regulation.</p> <p>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% .</p> <p>5. The ambient temperature derating of 3.5°C/1000m with fanless models and of 5°C/1000m with fan models for operating altitude higher than 2000m(6500ft).</p> <p>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.</p> <p>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 <a href="https://www.meanwell.com/Upload/PDF/EMI_statement_en.pdf">https://www.meanwell.com/Upload/PDF/EMI_statement_en.pdf</a>)</p> <p>※ Product Liability Disclaimer : For detailed information, please refer to <a href="https://www.meanwell.com/serviceDisclaimer.aspx">https://www.meanwell.com/serviceDisclaimer.aspx</a></p>					

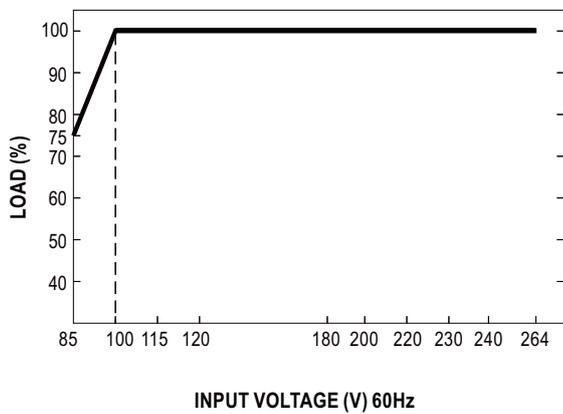
■ Block Diagram



■ Derating Curve



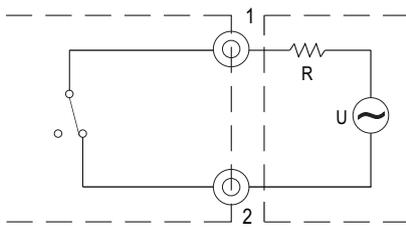
■ Static Characteristics



■ **Function Manual**

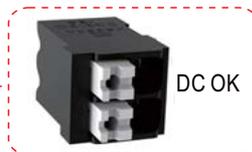
**1. DC OK Relay Contact**

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)

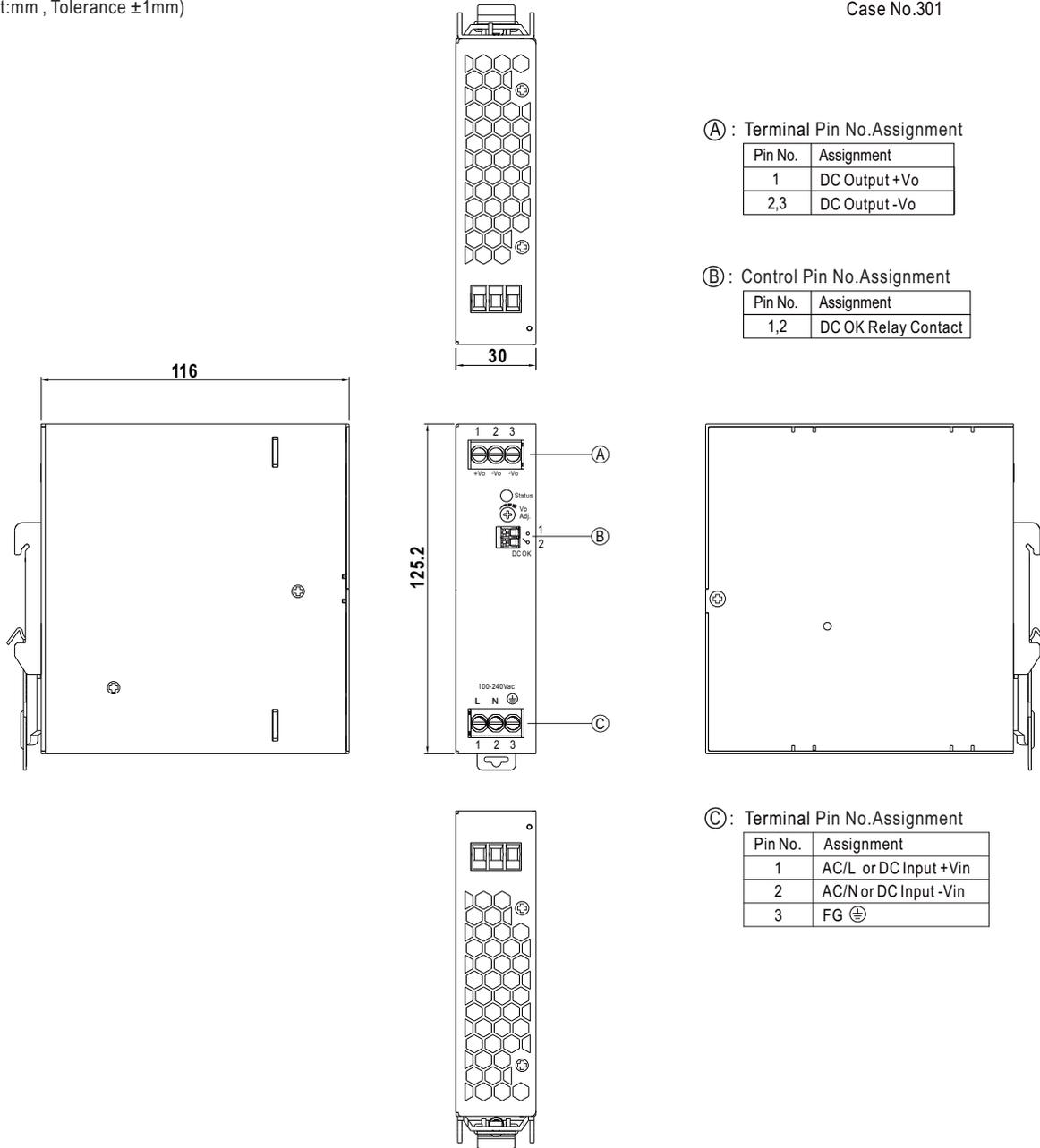
Internal circuit of DC\_OK, via relay contact



**■ Mechanical Specification**

(Unit:mm , Tolerance  $\pm 1$ 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

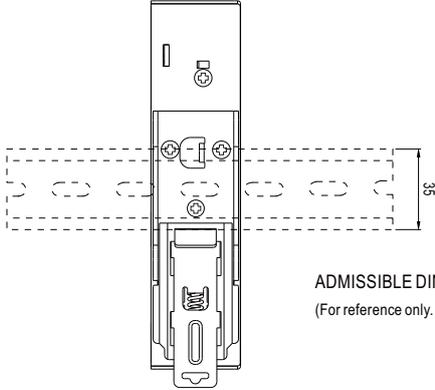
Ⓒ : Terminal Pin No.Assignment

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

**■ Recommend Wiring**

	AC Input T.B	DC Output T.B	Signal connector
Solid Wire	6mm <sup>2</sup> max.	6mm <sup>2</sup> max.	1.5mm <sup>2</sup> max.
A.W.G	22~10 AWG	22~10 AWG	24~16 AWG
Screw Terminal Torque	9 Lb-In	9 Lb-In	/

### ■ Installation Instruction

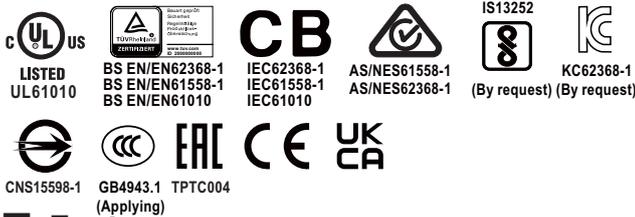


ADMISSIBLE DIN-RAIL: TS35/7.5 OR TS35/15  
(For reference only. Not included with unit.)

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

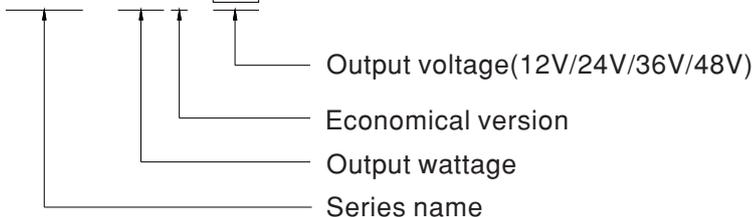
- 85~264Vac input range
- Global certificates in multi-fields (ITE 62368-1, Industrial 61558-1/-2-16, 61010)
- 30mm slim width
- High efficiency up to 91% and no load power dissipation < 1W
- Built-in constant current limiting circuit
- Protections: Short circuit / Overload / Over voltage / Over temperature
- 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

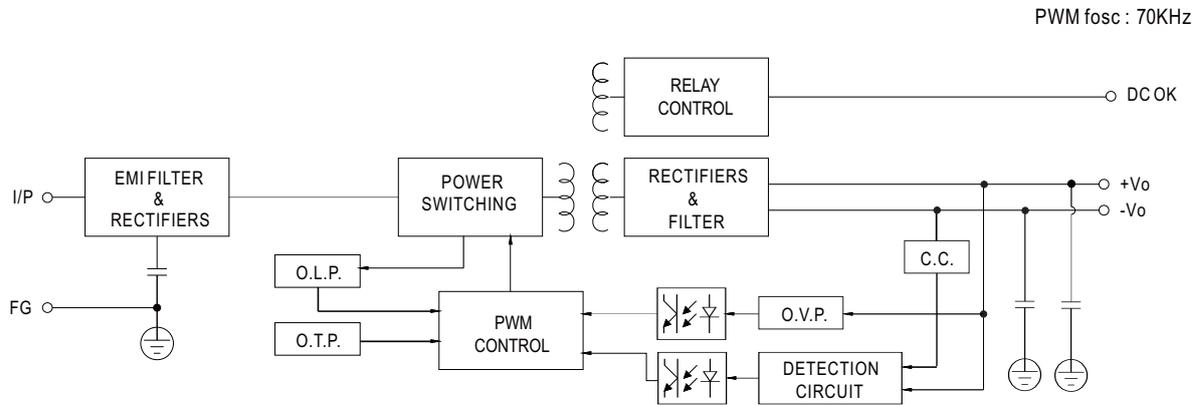
## ■ GTIN CODE

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

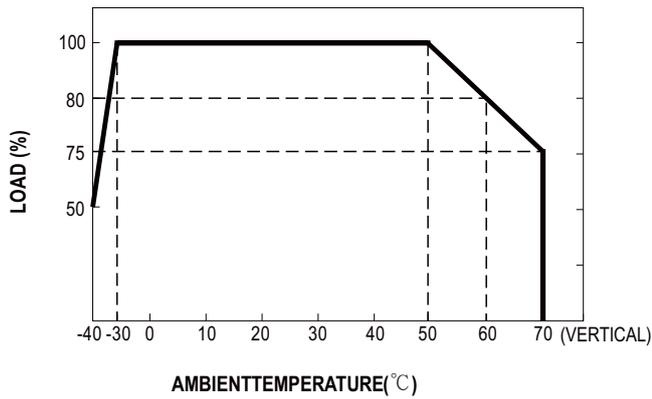
**SPECIFICATION**

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	124.6W	124.8W
		230VAC	132W	156W	155.9W	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.)	0.9W @115Vac & 230Vac		1W @115Vac & 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	
	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°C (Refer to "Derating Curve")				
	WORKING HUMIDITY	20 ~ 95% RH non-condensing				
	STORAGE TEMP., HUMIDITY	-40 ~ +85°C, 10 ~ 95% RH non-condensing				
	TEMP. COEFFICIENT	± 0.03% /°C (0 ~ 50°C)				
	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; <b>KC KC62368-1 and BIS IS13252 (Part 1):2010 certified, no stock ,contact sale for inquires</b>				
	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°C/ 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	2201.7K hrs min. Telcordia SR-332 (Bellcore) ; 440.4K hrs min. MIL-HDBK-217F (25°C)				
	DIMENSION	<b>30*125.2*116mm (W*H*D)</b>				
	PACKING	430g; 24pcs/11.3Kg/1.27CUFT				
NOTE	<p>1. All parameters NOT specially mentioned are measured at 230Vac input, rated load and 25°C of ambient temperature.</p> <p>2. Ripple &amp; noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1 μ F &amp; 47 μ F parallel capacitor.</p> <p>3. Tolerance : includes set up tolerance, line regulation and load regulation.</p> <p>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% .</p> <p>5. The ambient temperature derating of 3.5°C/1000m with fanless models and of 5°C/1000m with fan models for operating altitude higher than 2000m(6500ft).</p> <p>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.</p> <p>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 <a href="https://www.meanwell.com/Upload/PDF/EMI_statement_en.pdf">https://www.meanwell.com/Upload/PDF/EMI_statement_en.pdf</a> )</p> <p>※ Product Liability Disclaimer : For detailed information, please refer to <a href="https://www.meanwell.com/serviceDisclaimer.aspx">https://www.meanwell.com/serviceDisclaimer.aspx</a></p>					

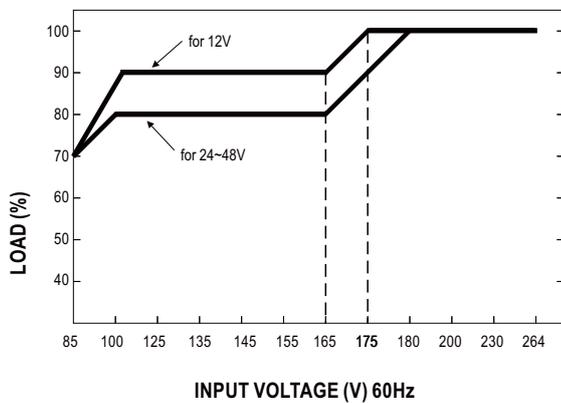
■ Block Diagram



■ Derating Curve



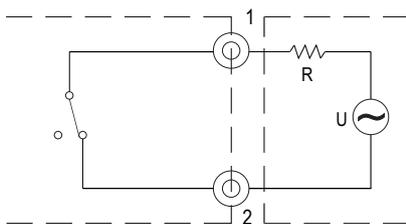
■ Static Characteristics



■ **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)

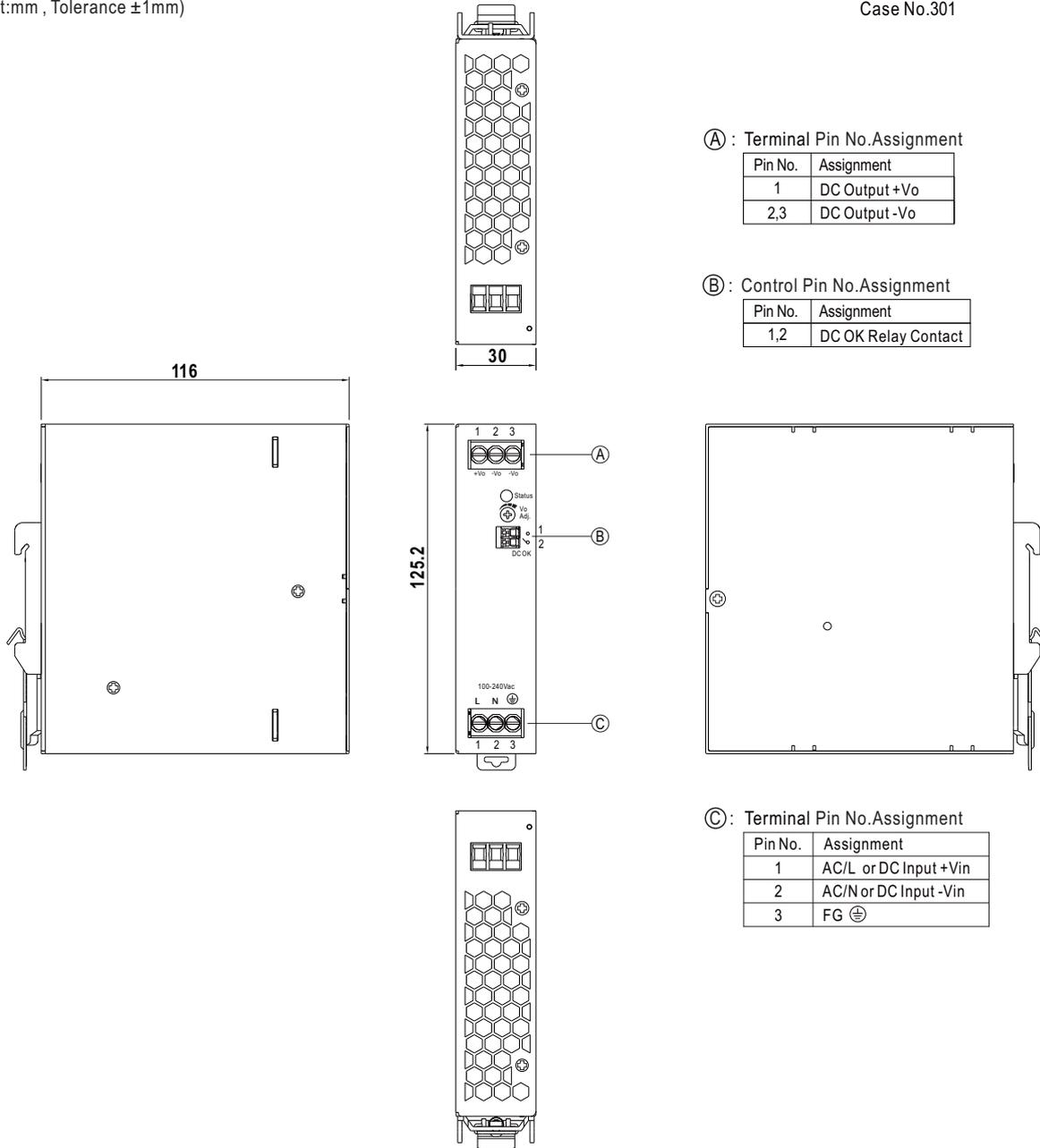
Internal circuit of DC\_OK, via relay contact



**■ Mechanical Specification**

(Unit:mm , Tolerance  $\pm 1$ 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

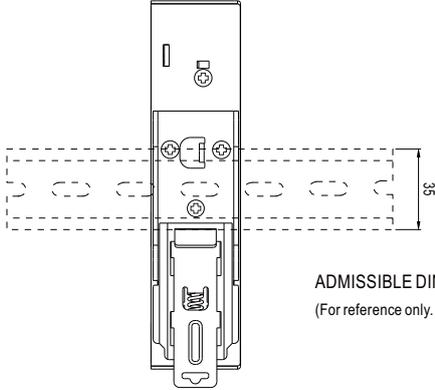
Pin No.	Assignment
1	AC/L or DC Input +Vin
2	AC/N or DC Input -Vin
3	FG $\oplus$

**■ Recommend Wiring**

	AC Input T.B	DC Output T.B	Signal connector
Solid Wire	6mm <sup>2</sup> max.	6mm <sup>2</sup> max.	1.5mm <sup>2</sup> max.
A.W.G	22~10 AWG	22~10 AWG	24~16 AWG
Screw Terminal Torque	9 Lb-In	9 Lb-In	/



■ **Installation Instruction**

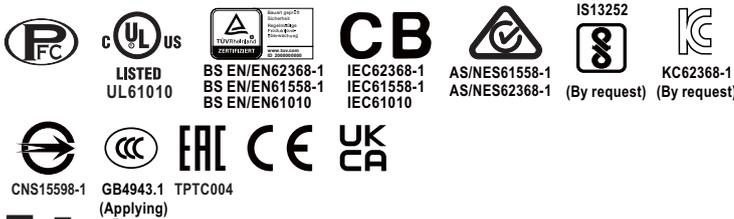


ADMISSIBLE DIN-RAIL: TS35/7.5 OR TS35/15  
(For reference only. Not included with unit.)

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

### ■ Applications

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

### ■ GTIN CODE

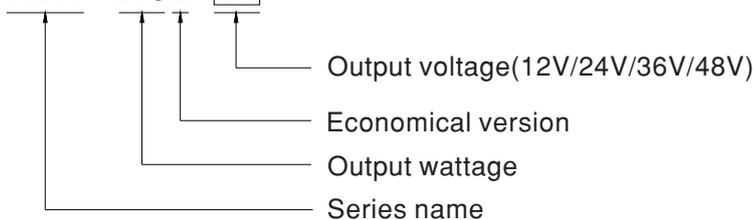
MW Search: <https://www.meanwell.com/serviceGTIN.aspx>

### ■ 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

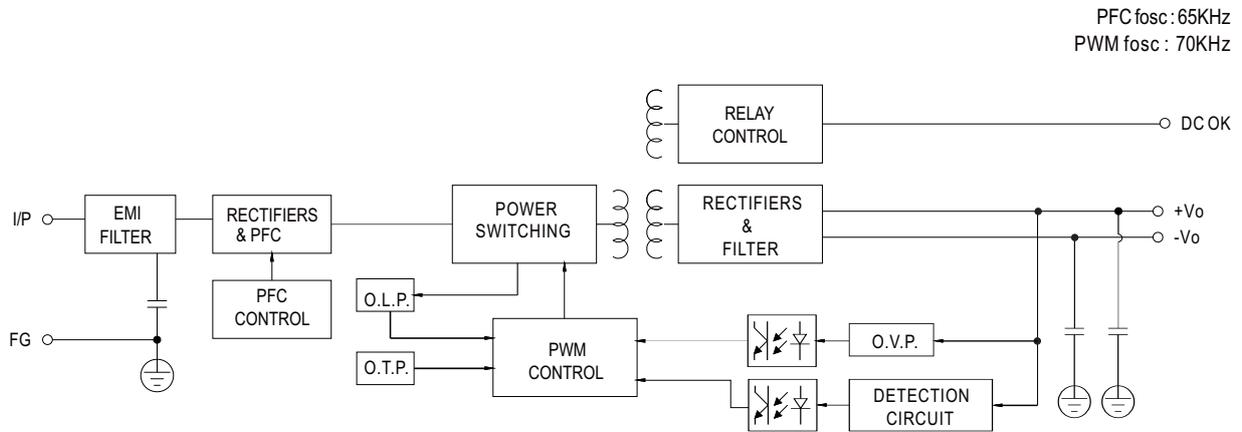
**XDR - 240E - 24**



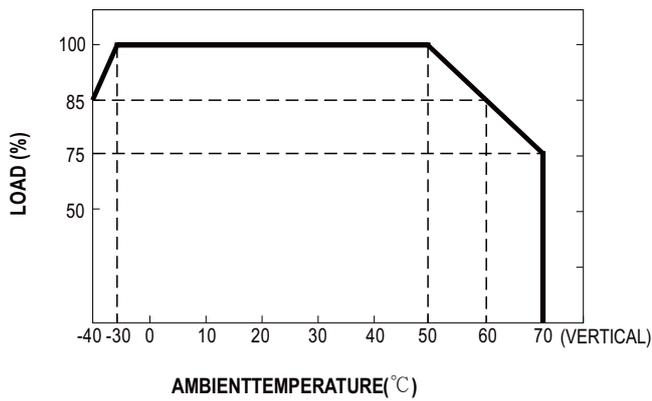
**SPECIFICATION**

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.) <small>Note.2</small>	100mVp-p	100mVp-p	120mVp-p	150mVp-p	
	VOLTAGE ADJ. RANGE	12 ~ 15V	24 ~ 29V	36 ~ 42V	48 ~ 55V	
	VOLTAGE TOLERANCE <small>Note.3</small>	±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	
	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°C (Refer to "Derating Curve")				
	WORKING HUMIDITY	20 ~ 95% RH non-condensing				
	STORAGE TEMP., HUMIDITY	-40 ~ +85°C, 10 ~ 95% RH non-condensing				
	TEMP. COEFFICIENT	±0.03% /°C (0 ~ 50°C)				
	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; <b>KC KC62368-1 and BIS IS13252 (Part 1):2010 certified, no stock ,contact sale for inquires</b>				
	OVER VOLTAGE CATEGORY <small>Note.4</small>	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°C / 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	1723.2K hrs min.    Telcordia SR-332 (Bellcore) ;		324.4K hrs min.    MIL-HDBK-217F (25°C)		
	DIMENSION	40*125.2*116mm (W*H*D)				
	PACKING	610g; 16pcs/14.1Kg/1.27CUFT				
NOTE	<p>1. All parameters NOT specially mentioned are measured at 230Vac input, rated load and 25°C of ambient temperature.</p> <p>2. Ripple &amp; noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1 μF &amp; 47 μF parallel capacitor.</p> <p>3. Tolerance : includes set up tolerance, line regulation and load regulation.</p> <p>4. The ambient temperature derating of 3.5°C/1000m with fanless models and of 5°C/1000m with fan models for operating altitude higher than 2000m(6500ft).</p> <p>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.</p> <p>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 <a href="https://www.meanwell.com/Upload/PDF/EMI_statement_en.pdf">https://www.meanwell.com/Upload/PDF/EMI_statement_en.pdf</a>)</p> <p>※ Product Liability Disclaimer : For detailed information, please refer to <a href="https://www.meanwell.com/serviceDisclaimer.aspx">https://www.meanwell.com/serviceDisclaimer.aspx</a></p>					

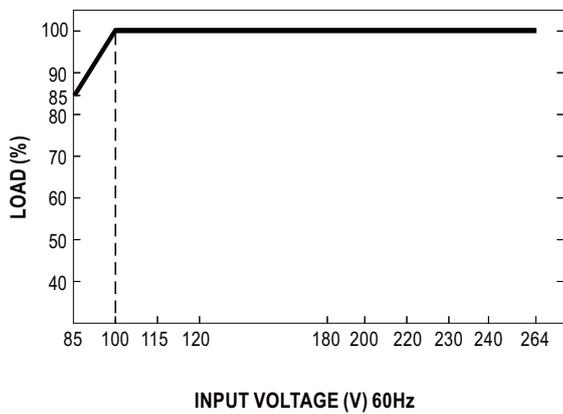
■ Block Diagram



■ Derating Curve



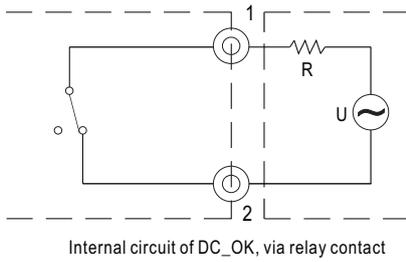
■ Static Characteristics



■ **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.



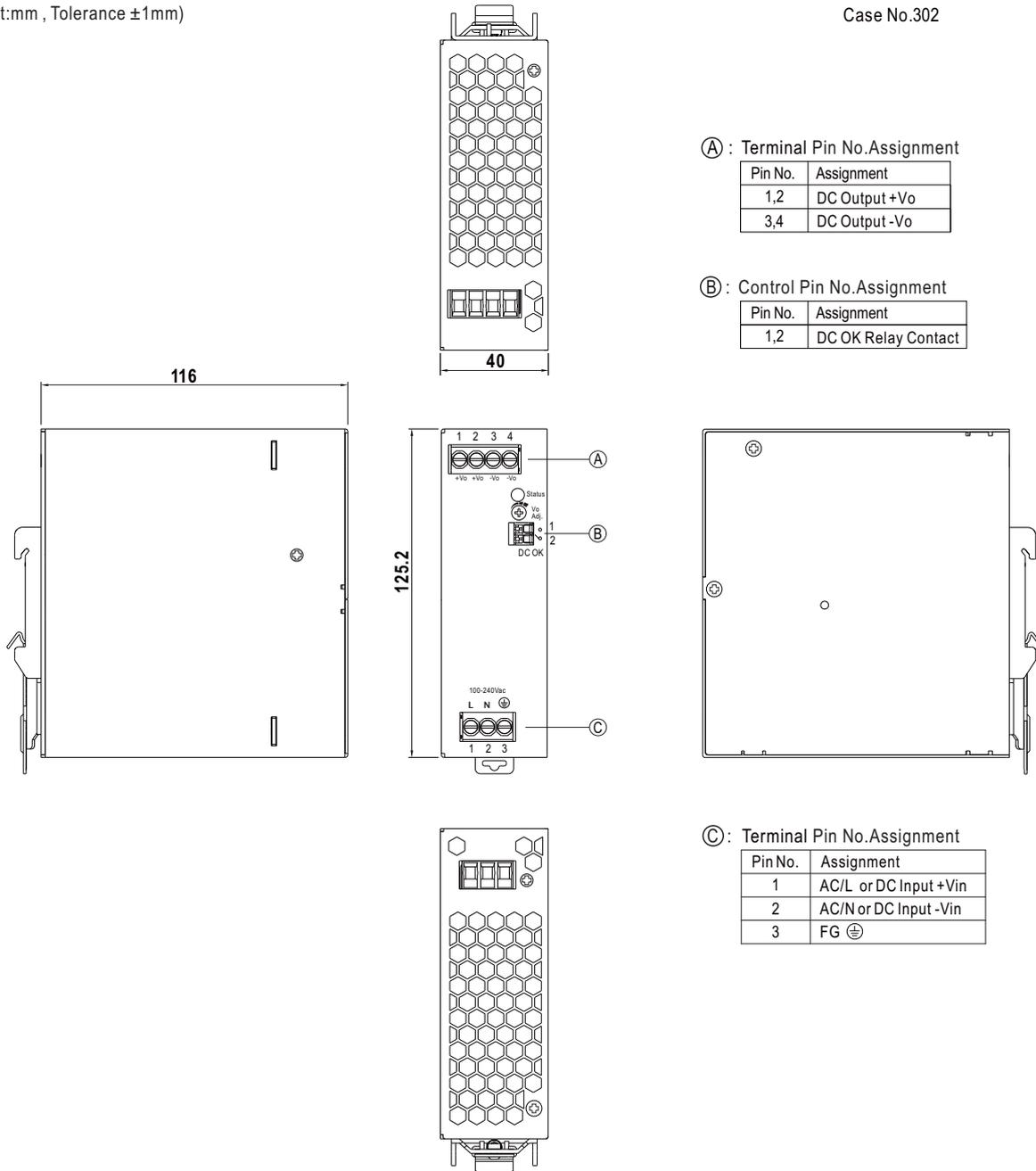
External voltage source (U) and resistor (R)  
(The max. Sink is 30Vdc/1A, 30Vac/0.5A)



**■ Mechanical Specification**

(Unit:mm , Tolerance  $\pm 1$ mm)

Case No.302



**(A) : Terminal Pin No.Assignment**

Pin No.	Assignment
1,2	DC Output +Vo
3,4	DC Output -Vo

**(B) : Control Pin No.Assignment**

Pin No.	Assignment
1,2	DC OK Relay Contact

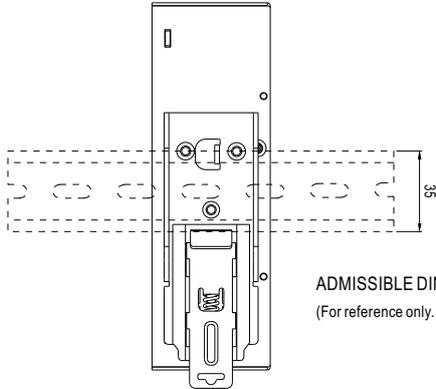
**(C) : Terminal Pin No.Assignment**

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

**■ Recommend Wiring**

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

### ■ Installation Instruction

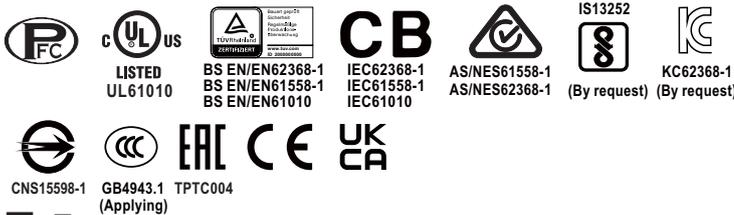


ADMISSIBLE DIN-RAIL: TS35/7.5 OR TS35/15  
(For reference only. Not included with unit.)

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

## ■ Applications

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

## ■ GTIN CODE

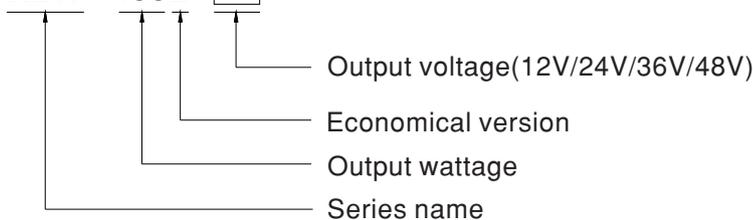
MW Search: <https://www.meanwell.com/serviceGTIN.aspx>

## ■ 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

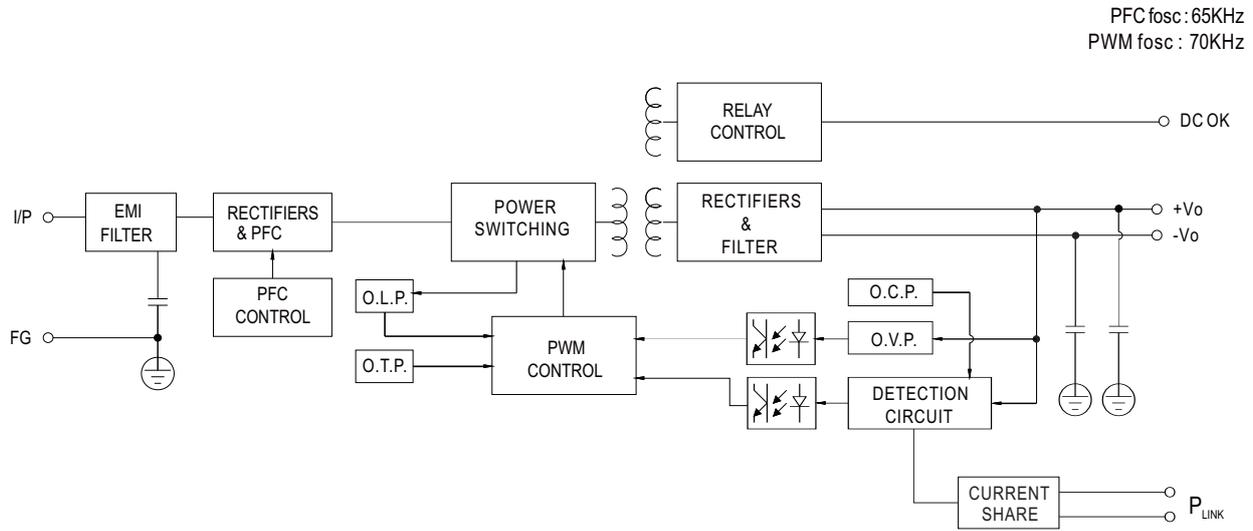
**XDR - 480E - 24**



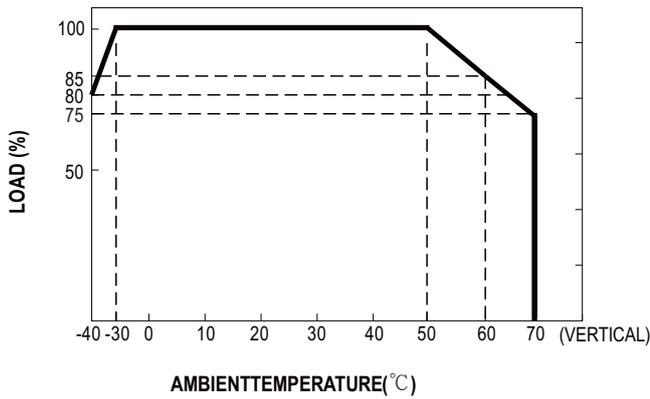
## SPECIFICATION

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	
	OVER TEMPERATURE	Protection type : Shut down o/p voltage,recovers automatically after temperature goes down				
FUNCTION	PARALLEL (Droop Mode)	Up to 1920W Max (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°C (Refer to "Derating Curve")				
	WORKING HUMIDITY	20 ~ 95% RH non-condensing				
	STORAGE TEMP., HUMIDITY	-40 ~ +85°C, 10 ~ 95% RH non-condensing				
	TEMP. COEFFICIENT	± 0.03% /°C (0 ~ 50°C)				
	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; <b>KC KC62368-1 and BIS IS13252 (Part 1):2010 certified, no stock ,contact sale for inquires</b>				
	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°C/ 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		----
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	1482.0K hrs min. Telcordia SR-332 (Bellcore) ; 258.3K hrs min. MIL-HDBK-217F (25°C)				
	DIMENSION	<b>48*125.2*125mm (W*H*D)</b>				
	PACKING	890g; 12pcs/13Kg/1.16CUFT				
NOTE	<p>1. All parameters NOT specially mentioned are measured at 230Vac input, rated load and 25°C of ambient temperature.</p> <p>2. Ripple &amp; noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1 μF &amp; 47 μF parallel capacitor.</p> <p>3. Tolerance : includes set up tolerance, line regulation and load regulation.</p> <p>4. The ambient temperature derating of 3.5°C/1000m with fanless models and of 5°C/1000m with fan models for operating altitude higher than 2000m(6500ft).</p> <p>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.</p> <p>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 <a href="https://www.meanwell.com/Upload/PDF/EMI_statement_en.pdf">https://www.meanwell.com/Upload/PDF/EMI_statement_en.pdf</a>)</p> <p>※ Product Liability Disclaimer : For detailed information, please refer to <a href="https://www.meanwell.com/serviceDisclaimer.aspx">https://www.meanwell.com/serviceDisclaimer.aspx</a></p>					

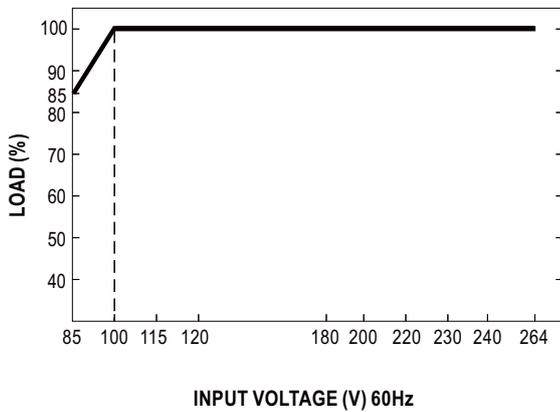
## Block Diagram



## Derating Curve



## Static Characteristics

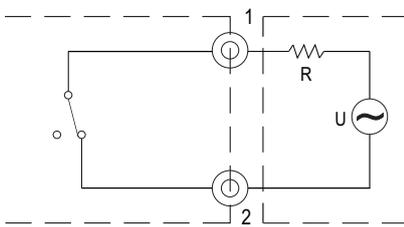


## Function Manual

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 <sub>LINK</sub> )	P <sub>LINK</sub> 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 :

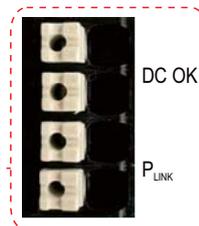
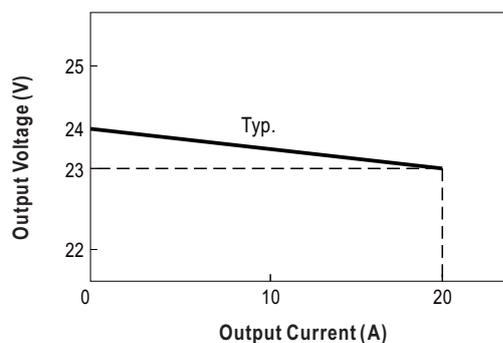
- (1) Difference of output voltages among parallel units should be less than **0.1V**.
- (2) The total output current must not exceed the value determined by the following equation (Output current at parallel operation)=(The rated current per unit) x (Number of unit) x 0.9.
- (3) In parallel operation 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<sub>LINK</sub> 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:

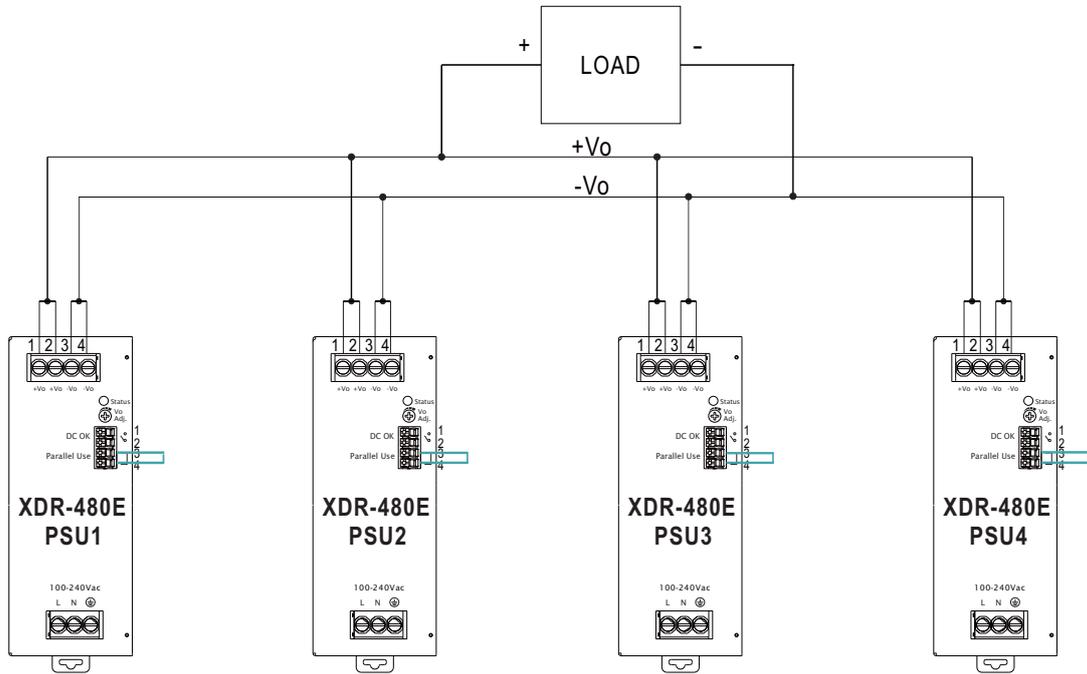
No load output voltage=24V

Normal load output current=20A

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



Enable : P<sub>LINK</sub> should be short

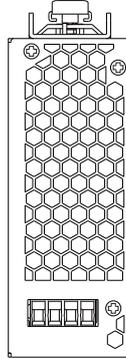


※ Please contact MEAN WELL for more details.

## ■ Mechanical Specification

(Unit:mm , Tolerance ±1mm)

Case No.303

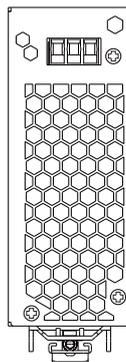
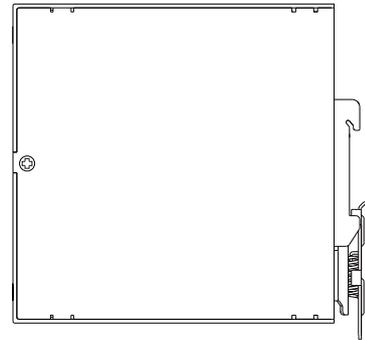
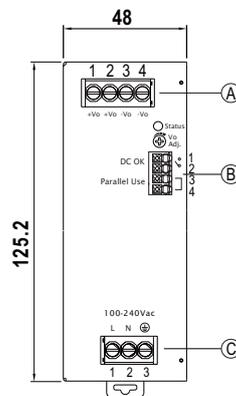
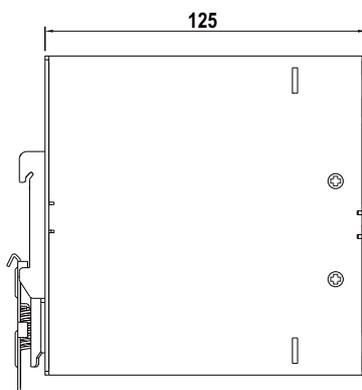


Ⓐ : Terminal Pin No.Assignment

Pin No.	Assignment
1,2	DC Output +Vo
3,4	DC Output -Vo

Ⓑ : Control Pin No.Assignment

Pin No.	Assignment
1,2	DC OK Relay Contact
3,4	Parallel Use Link(Current Sharing)



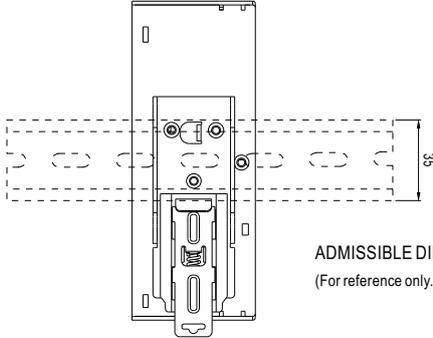
Ⓒ : Terminal Pin No.Assignment

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 <sup>2</sup> max.	6mm <sup>2</sup> max.	1.5mm <sup>2</sup> max.
A.W.G	18~10 AWG	18~8 AWG	24~16 AWG
Screw Terminal Torque	9 Lb-In	9 Lb-In	/

### ■ Installation Instruction

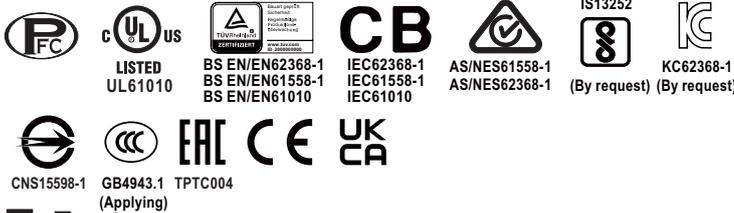


ADMISSIBLE DIN-RAIL: TS35/7.5 OR TS35/15  
(For reference only. Not included with unit.)

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

- 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

### ■ Applications

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

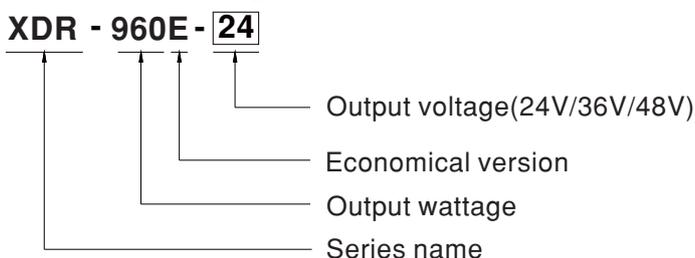
### ■ GTIN CODE

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

### ■ 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); OVCIII 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.

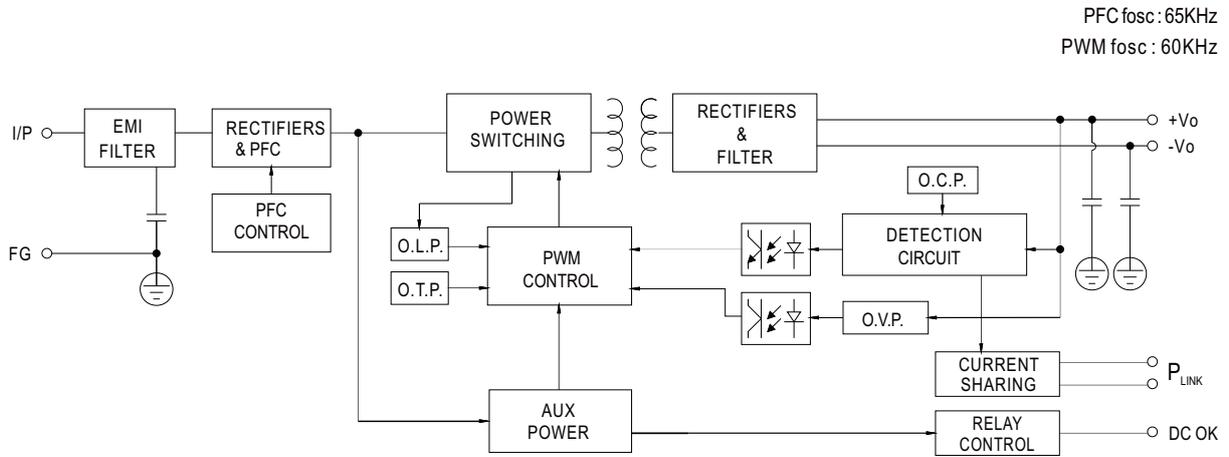
### ■ Model Encoding



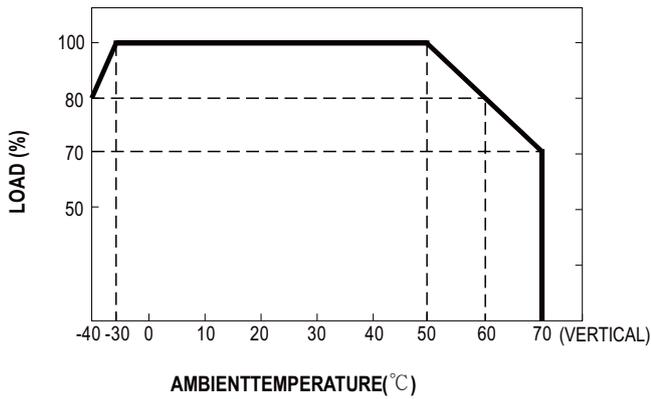
SPECIFICATION

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.) <small>Note.2</small>	120mVp-p	150mVp-p	150mVp-p	
	VOLTAGE ADJ. RANGE	24 ~ 29V	36 ~ 42V	48 ~ 55V	
	VOLTAGE TOLERANCE <small>Note.3</small>	±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	
	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°C (Refer to "Derating Curve")			
	WORKING HUMIDITY	20 ~ 95% RH non-condensing			
	STORAGE TEMP., HUMIDITY	-40 ~ +85°C, 10 ~ 95% RH non-condensing			
	TEMP. COEFFICIENT	±0.03%/°C (0 ~ 50°C)			
	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 CNS 15598-1; 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 <small>Note.4</small>	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°C/70%RH			
	EMC EMISSION	Parameter	Standard	Test Level / Note	
			Conducted	BS EN/EN55032 (CISPR32) / BS EN/EN61204-3 / CNS15936	
			Radiated	BS EN/EN55032 (CISPR32) / BS EN/EN61204-3 / CNS15936	
			Harmonic Current	BS EN/EN61000-3-2	
		Voltage Flicker	BS EN/EN61000-3-2		
BS EN/EN55035, BS EN/EN61204-3, BS EN/EN61000-6-2(BS EN/EN50082-2)					
EMC IMMUNITY		Parameter	Standard	Test Level / Note	
			ESD	BS EN/EN61000-4-2	
	Radiated		BS EN/EN61000-4-3		
	EFT / Burst		BS EN/EN61000-4-4		
	Surge		BS EN/EN61000-4-5		
	Conducted		BS EN/EN61000-4-6		
Magnetic Field	BS EN/EN61000-4-8				
OTHERS	MTBF	K hrs min. Telcordia SR-332 (Bellcore); K hrs min. MIL-HDBK-217F (25°C)			
	DIMENSION	96*125.2*132mm (W*H*D)			
	PACKING	Kg; pcs/Kg/CUFT			
NOTE	<p>1. All parameters NOT specially mentioned are measured at 230Vac input, rated load and 25°C of ambient temperature.</p> <p>2. Ripple &amp; noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1 μF &amp; 47 μF parallel capacitor.</p> <p>3. Tolerance : includes set up tolerance, line regulation and load regulation.</p> <p>4. The ambient temperature derating of 3.5°C/1000m with fanless models and of 5°C/1000m with fan models for operating altitude higher than 2000m(6500ft).</p> <p>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.</p> <p>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 <a href="https://www.meanwell.com/Upload/PDF/EMI_statement_en.pdf">https://www.meanwell.com/Upload/PDF/EMI_statement_en.pdf</a>)</p> <p>※ Product Liability Disclaimer : For detailed information, please refer to <a href="https://www.meanwell.com/serviceDisclaimer.aspx">https://www.meanwell.com/serviceDisclaimer.aspx</a></p>				

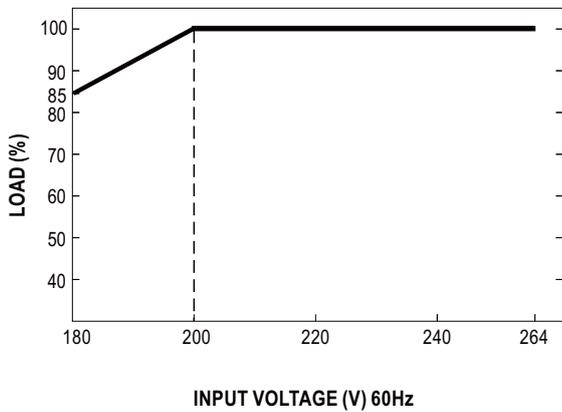
■ Block Diagram



■ Derating Curve



■ Static Characteristics

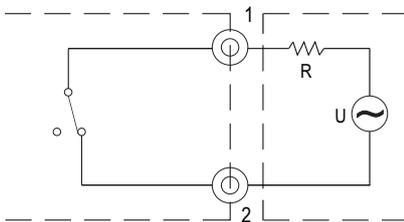


**Function Manual**

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 <sub>LINK</sub> )	P <sub>LINK</sub> 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-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 :

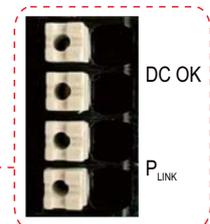
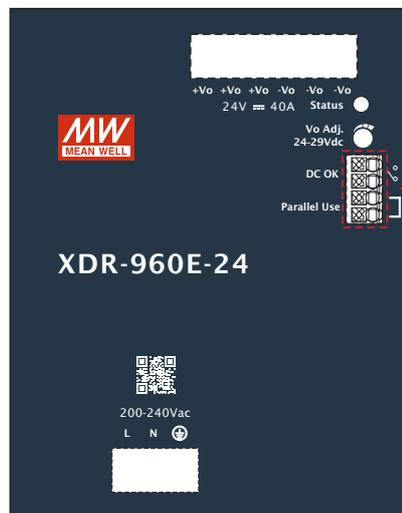
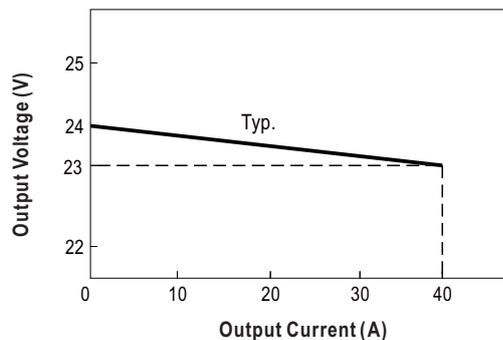
- (1) Difference of output voltages among parallel units should be less than 0.1V.
- (2) The total output current must not exceed the value determined by the following equation (Output current at parallel operation)=(The rated current per unit) x (Number of unit) x 0.9.
- (3) In parallel operation 4 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<sub>LINK</sub> 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:

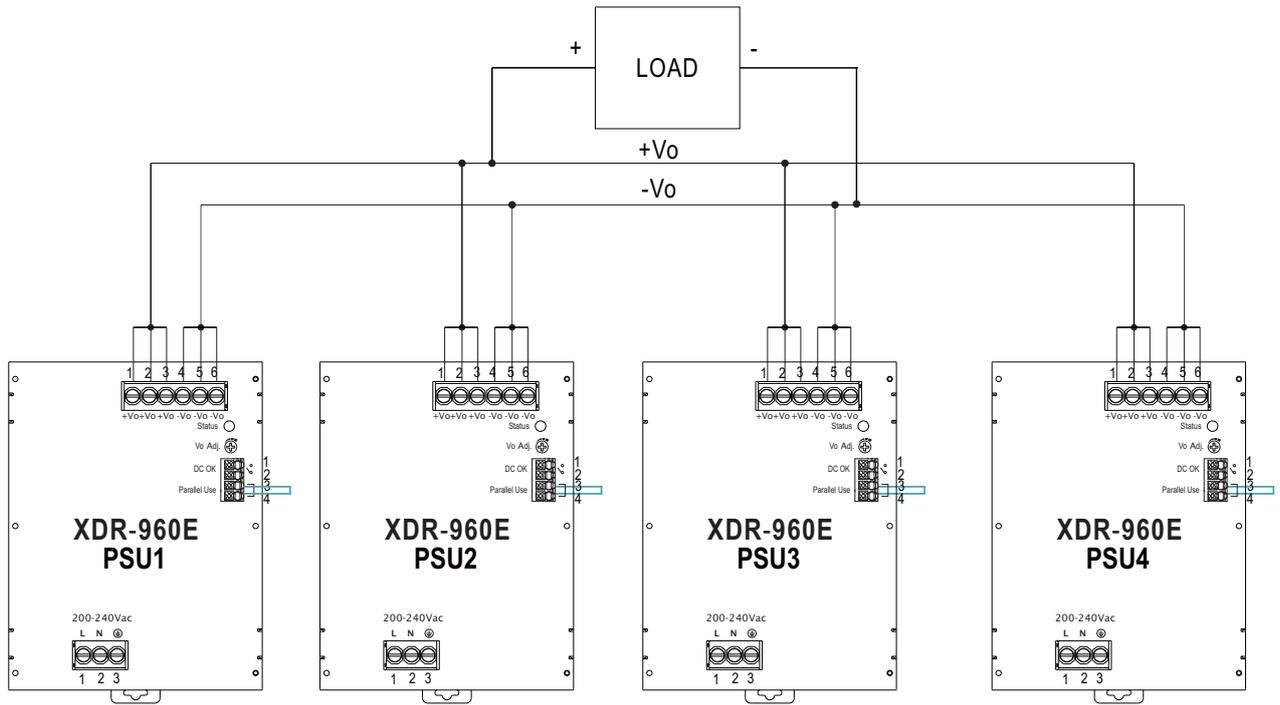
No load output voltage=24V

Normal load output current=40A

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



Enable : P<sub>LINK</sub> should be short

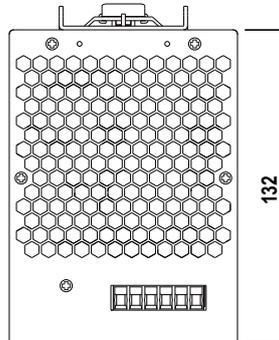


※ Please contact MEAN WELL for more details.

**■ Mechanical Specification**

(Unit:mm , Tolerance ±1mm)

Case No. 304

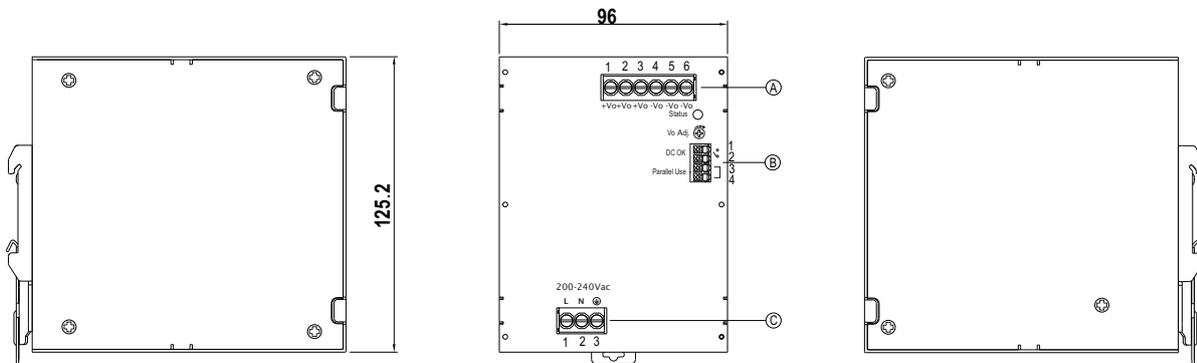


Ⓐ : Terminal Pin No.Assignment

Pin No.	Assignment
1,2,3	DC Output +Vo
4,5,6	DC Output -Vo

Ⓑ : Control Pin No.Assignment

Pin No.	Assignment
1,2	DC OK Relay Contact
3,4	Parallel Use Link(Current Sharing)



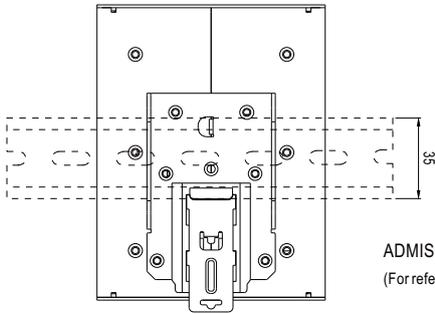
Ⓒ : Terminal Pin No.Assignment

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 <sup>2</sup> max.	6mm <sup>2</sup> max.	1.5mm <sup>2</sup> max.
A.W.G	18~10 AWG	18~8 AWG	24~16 AWG
Screw Terminal Torque	9 Lb-In	9 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>