

## ■ Features

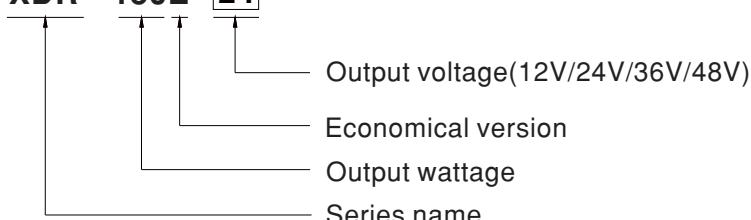
- 85~264Vac input range
- **Global certificates in multi-fields** (ITE 62368-1, Industrial 61558-1/2-16,61010)
- 30mm slim width
- High efficiency up to 91% and no load power dissipation<1W
- Built-in **constant current** limiting circuit
- Protections: Short circuit / Overload / Over voltage / Over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

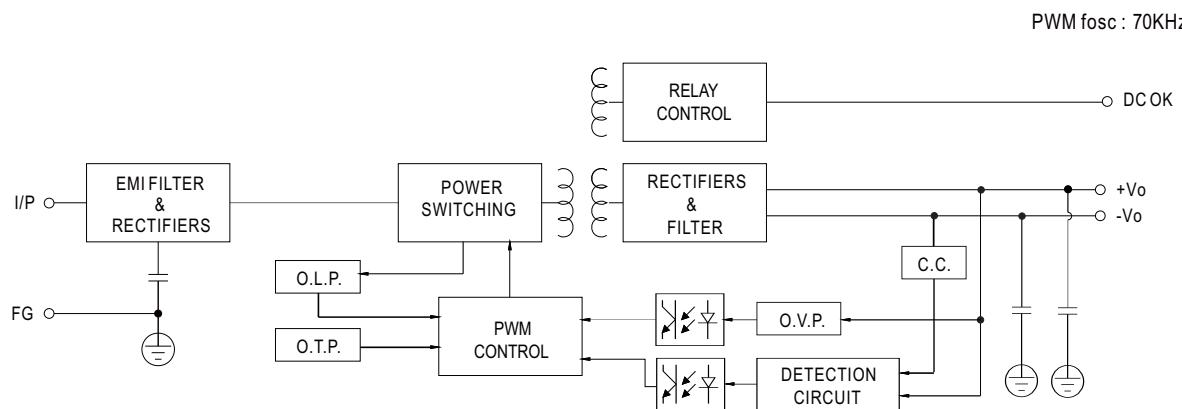
## ■ GTIN CODE

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

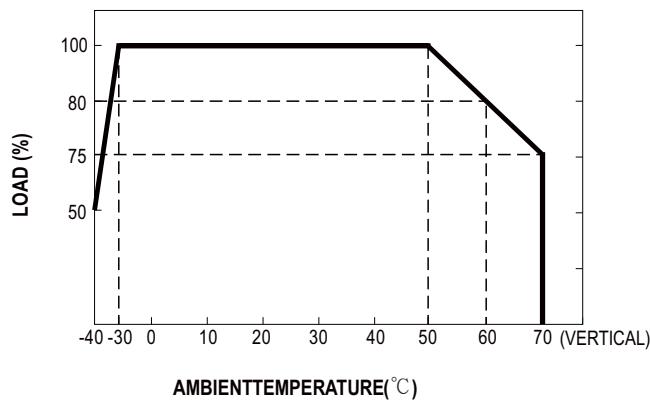
## SPECIFICATION

MODEL	XDR-150E-12		XDR-150E-24		XDR-150E-36		XDR-150E-48									
OUTPUT	DC VOLTAGE	12V	24V	36V	48V											
	RATED CURRENT	115VAC 230VAC	10A 11A	5.2A 6.5A	3.46A 4.33A	2.6A 3.25A										
	CURRENT RANGE	115VAC 230VAC	0 ~ 10A 0 ~ 11A	0 ~ 5.2A 0 ~ 6.5A	0 ~ 3.46A 0 ~ 4.33A	0 ~ 2.6A 0 ~ 3.25A										
	RATED POWER	115VAC 230VAC	120W 132W	124.8W 156W	124.6W 155.9W	124.8W 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%	±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												
INPUT	HOLD UP TIME (Typ.)	16ms/230Vac		8ms/115Vac at full load												
	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												
PROTECTION	INRUSH CURRENT (Typ.)	COLD START 20A/115Vac		40A/230Vac												
	LEAKAGE CURRENT	<1mA / 240Vac														
	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														
FUNCTION	OVER VOLTAGE	15 ~ 18V		30 ~ 34V		43 ~ 50V		56 ~ 65V								
	OVER TEMPERATURE	Protection type : Shut down o/p voltage, re-power on to recover														
	DC OK RELAY CONTACT	Protection type : Shut down o/p voltage,recovers automatically after fault condition is removed														
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; 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°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												
	EMC IMMUNITY	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												
OTHERS	Conducted	BS EN/EN61000-4-6	Level 3, 10V ; criteria A													
	DIMENSION	Magnetic Field	BS EN/EN61000-4-8	Level 4, 30A/m ; criteria A												
		2201.7K hrs min. Telcordia SR-332 (Bellcore) ;	440.4K hrs min.	MIL-HDBK-217F (25°C)												
NOTE	PACKING	430g; 24pcs/11.3Kg/1.27CUFT														
	1. All parameters NOT specially mentioned are measured at 230Vac input, rated load and 25°C of ambient temperature. 2. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1 μF & 47 μF 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°C/1000m with fanless models and of 5°C/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 <a href="https://www.meanwell.com//Upload/PDF/EMI_statement_en.pdf">https://www.meanwell.com//Upload/PDF/EMI_statement_en.pdf</a> )															
※ Product Liability Disclaimer : For detailed information, please refer to <a href="https://www.meanwell.com/serviceDisclaimer.aspx">https://www.meanwell.com/serviceDisclaimer.aspx</a>																

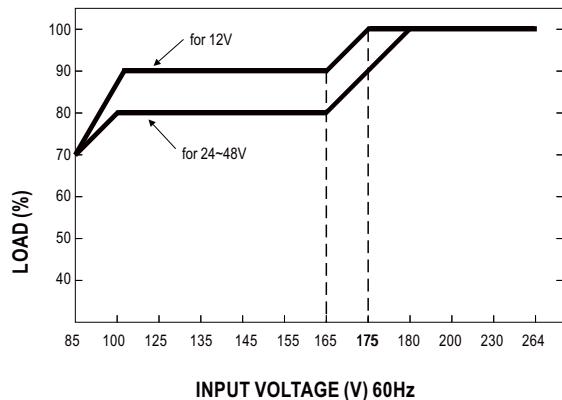
### ■ Block Diagram



### ■ Derating Curve

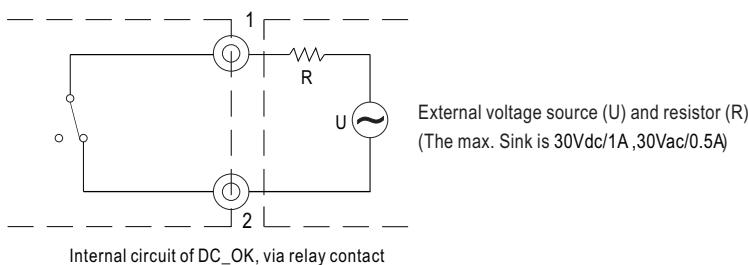


### ■ Static Characteristics



**■ Function Manual****1.DC OK Relay Contact**

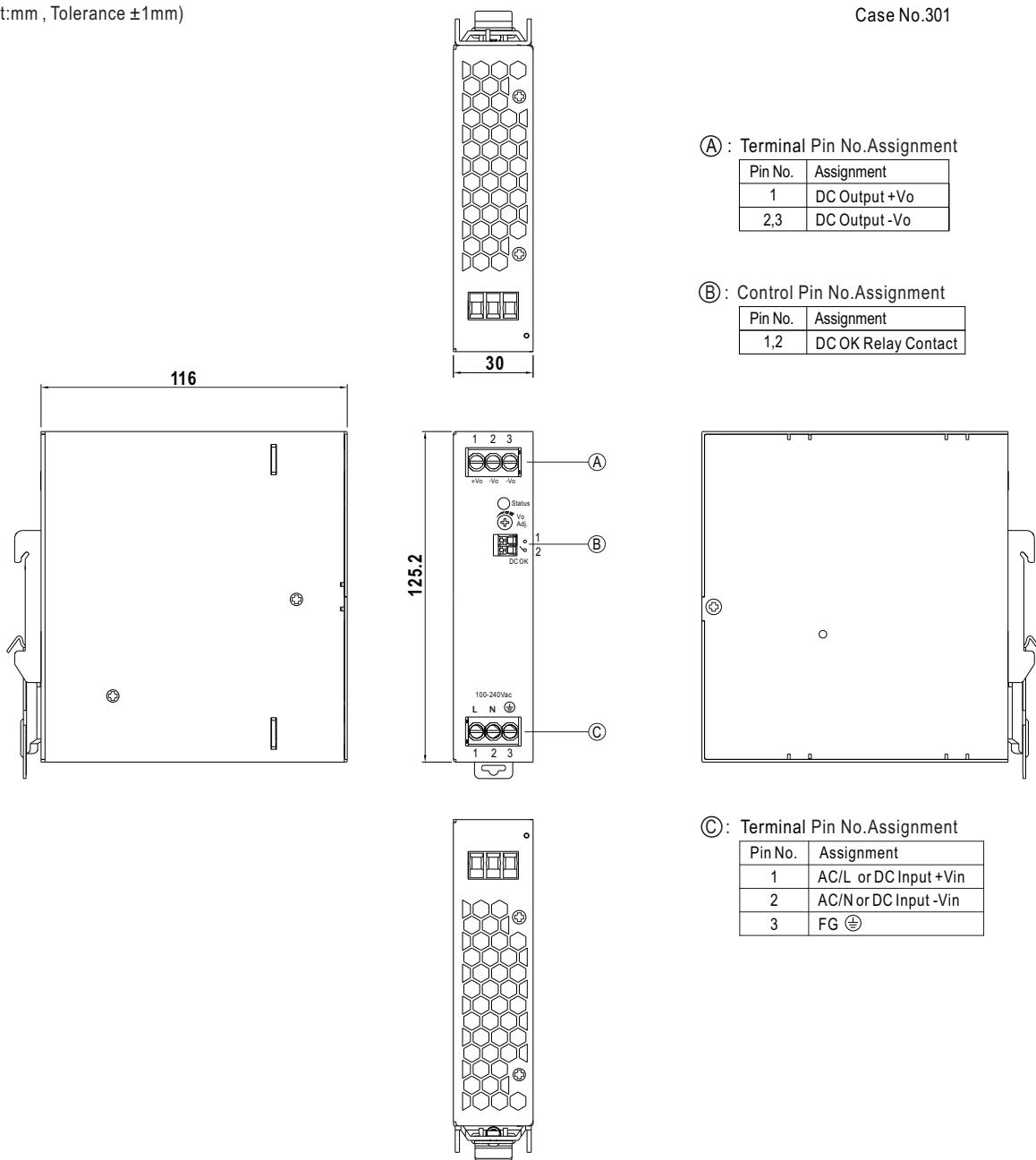
Contact Close	PSU turns ON/DC OK.
Contact Open	PSU turns OFF/DC Fail.
Contact Ratings (max.)	30Vdc/1A, 30Vac/0.5A resistive load.



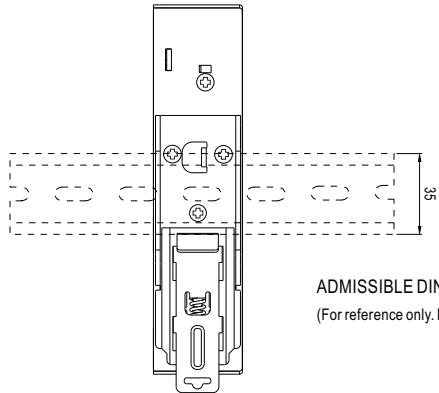
**■ Mechanical Specification**

 (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	9 Lb-In	9 Lb-In	/

**■ 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>