

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

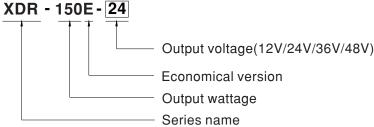
GTIN CODE

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

Description

The XDR-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.





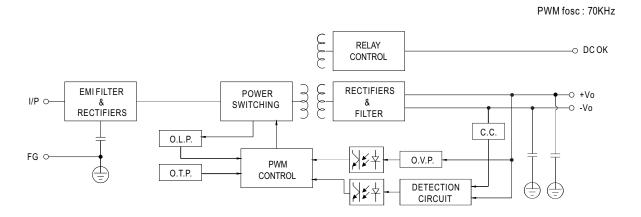
IODEL			XDR-150E-12	XDR-150E-24	XDR-150E-36	XDR-150E-48	
	DC VOLTAGE		12V	24V	36V	48V	
		115VAC	10A	5.2A	3.46A	2.6A	
	RATED CURRENT	230VAC	11A	6.5A	4.33A	3.25A	
		115VAC	0 ~ 10A	0 ~ 5.2A	0~3.46A	0 ~ 2.6A	
	CURRENT RANGE	230VAC	0 ~ 11A	0 ~ 6.5A	0~4.33A	0 ~ 3.25A	
		115VAC	120W	124.8W	124.6W	124.8W	
	RATED POWER	230VAC	132W	156W	155.9W	156W	
	RIPPLE & NOISE (max.)		100mVp-p	120mVp-p	150mVp-p	200mVp-p	
	VOLTAGE ADJ. RANGE		12 ~ 15V	24 ~ 29V	36 ~ 42V	48 ~ 55V	
JTPUT	VOLTAGE TOLERANCE Note.3		±2.0%	±1.0%	±1.0%	±1.0%	
	LINE REGULATION	Note.5	±0.5%	±0.5%	±0.5%	±0.5%	
	LOAD REGULATION		±1.0%	±1.0%	±1.0%	±1.0%	
					⊥ 1.0 //8	⊥ 1.0 /0	
	SETUP, RISE TIME		,	10ms, 60ms/115V ac at full load			
	HOLD UP TIME (Typ.)		16ms/230Vac 8ms/115Vac at full load				
	AC VOLTAGE RANGE		85~264Vac				
	DC VOLTAGE RANGE		120 ~ 370Vdc				
		MPTION (Typ.)	0.9W @115Vac & 230Vac				
PUT	FREQUENCY RANGE		47~63Hz				
	EFFICIENCY (Typ.)		89%	91%	91%	91%	
	AC CURRENT (Typ.)		2.6A/115Vac 1.6A/230Vac				
	INRUSH CURRENT (Ty	o.)	COLD START 20A/115Vac	40A/230Vac			
	LEAKAGE CURRENT		<1mA/240Vac				
	OVERLOAD				out shutdown, recovers automatically a		
	OTEREORD				out shutdown, recovers automatically a		
ROTECTION	OVER VOLTAGE		15 ~ 18V	30 ~ 34V	43 ~ 50V	56 ~ 65V	
	OVER VOLIAGE		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		
JNCTION	DC OK RELAY CON	TACT	Relay Contact Ratings (max.):3	BOVdc/1A, 30Vac/0.5A resistive load	i		
	WORKING TEMP.	Note.4	-40 ~ +70°C (Refer to "Derating	g Curve")			
	WORKING HUMIDITY 20 ~ 95% RH non-condensing						
NVIRONMENT			-40 ~ +85°C , 10 ~ 95% RH nor	~ +85°C, 10 ~ 95% RH non-condensing			
			±0.03% /°C (0 ~ 50°C)				
	VIBRATION		Component: 10 ~ 500Hz, 2G 10r	z, 2G 10min./1cycle, 60min. each along X, Y, Z axes; Mounting: Compliance to IEC60068-2-6			
			UL61010; TUV BS EN/EN6	UL61010; TUV BS EN/EN62368-1, BS EN/EN61558-1/-2-16, BS EN/EN61010; CB IEC62368-1, IEC61558-1, IEC61010;			
	SAFETY STANDARDS		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 CATEG	ORV Note 4	IEC/EN 61558-1/-2-16 (OVC III, altitude up to 2000m)				
	OVER VOLIAGE CATEG	OKI NOTE.4	IEC/EN/UL 61010 (OVC II, altitude up to 5000m) IEC/EN 62368-1 (OVC II. altitude up to 5000m)				
			IEC/EN 61558-2-16 (SELV)				
	SAFETY EXTRA-LO VOLTAGE(SELV))W	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				
SAFETY &	ENG ENIGOION		Parameter	Standard		Test Level / Note	
мс			Conducted	`	e) / BS EN/EN61204-3 / CNS15936	Class B	
lote 7)			Radiated	BS EN/EN55032 (CISPR32) / BS EN/EN61204-3 / CNS15936	Class B	
	EMC EMISSION		Harmonic Current	BS EN/EN61000-3-2		Class A	
			Voltage Flicker	BS EN/EN61000-3-2			
			BS EN/EN55035 , BS EN/E	N61204-3, 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 o	contact; criteria A	
	EMC IMMUNITY		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	4, 4KV/Line-Line-Chassis ;criteria	
			Conducted	BS EN/EN61000-4-6	Level 3, 10V; criteria A		
			Magnetic Field BS EN/EN61000-4-8 Level 4, 30A/m; criteria A				
	MTBF		2201.7K hrs min. Telcordia SR-332 (Bellcore); 440.4K hrs min. MIL-HDBK-217F (25°C)				
			30*125.2*116mm (W*H*D)				
THERS	DIMENSION		30*125.2*116mm (W*H*D				
THERS	DIMENSION PACKING		30*125.2*116mm (W*H*D 430g; 24pcs/11.3Kg/1.270	,			

NOTE

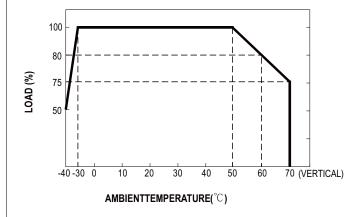
- 4. When the temperature is between -40 ° C and -20 ° C and the input voltage is between 85V and 90V, the temperature derating curve drops to 40%.
- 5. The ambient temperature derating of $3.5^{\circ}\text{C}/1000\text{m}$ with fanless models and of $5^{\circ}\text{C}/1000\text{m}$ with fan models for 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



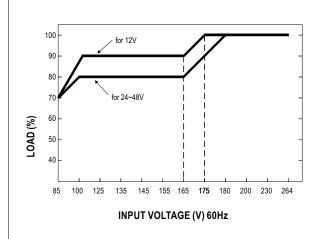
■ Block Diagram



■ Derating Curve



■ Static Characteristics

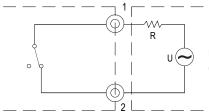




■ Function Manual

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

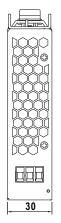






■ Mechanical Specification

(Unit:mm, Tolerance ±1mm)



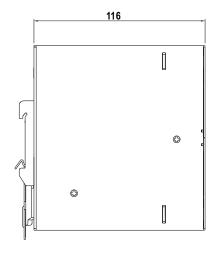
Case No.301

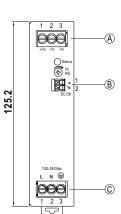
(A): Terminal Pin No.Assignment

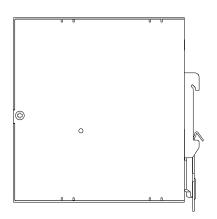
Pin No.	Assignment	
1	DC Output +Vo	
2,3	DC Output -Vo	

B : Control Pin No. Assignment

Pin No.	Assignment
1,2	DC OK Relay Contact

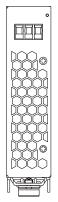








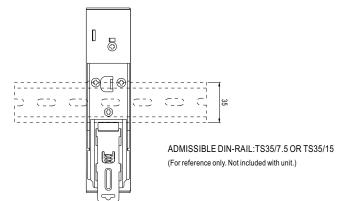
© :	Terminal Pin No.Assignment		
	Pin No.	Assignment	
	1	AC/L or DC Input +Vin	
	2	AC/N or DC Input -Vin	
	3	FG (#)	



■ Recommend Wiring

	AC Input T.B	DC Output T.B	Signal connector
Solid Wire	6mm² max.	6mm² max.	1.5mm² max.
A.W.G	22~10 AWG	22~10 AWG	24~16 AWG
Screw Terminal Torque	9 Lb-In	9 Lb-In	1

■ Installation Instruction



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