

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

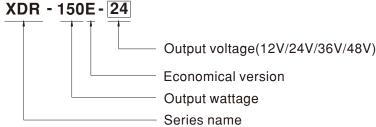
GTIN CODE

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.





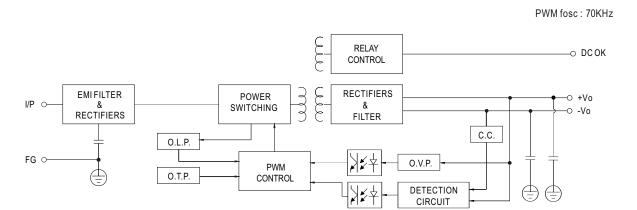


MODEL			XDR-150E-12	XDR-150E-24	XDR-150E-36	XDR-150E-48	
	DC VOLTAGE		12V	24V	36V	48V	
		115VAC	10A	5.2A	3.46A	2.6A	
	RATED CURRENT	230VAC	11A	6.5A	4.33A	3.25A	
		115VAC	0 ~ 10A	0 ~ 5.2A	0~3.46A	0 ~ 2.6A	
	CURRENT RANGE	230VAC	0 ~ 11A	0 ~ 6.5A	0~4.33A	0 ~ 3.25A	
		115VAC	120W	124.8W	124.56W	124.8W	
	RATED POWER	230VAC	132W	156W	155.88W	156W	
	RIPPLE & NOISE (max.)		100mVp-p	120mVp-p	150mVp-p	200mVp-p	
	VOLTAGE ADJ. RANGE		12 ~ 15V	24 ~ 29V	36 ~ 42V	48 ~ 55V	
UTPUT	VOLTAGE TOLERANCE Note.3		±2.0%	±1.0%	±1.0%	±1.0%	
			±0.5%	±0.5%	±0.5%	±0.5%	
	LINE REGULATION		±1.0%	±1.0%	±1.0%	±1.0%	
	LOAD REGULATION				1.0%		
	SETUP, RISE TIME		,	0ms, 60ms/115Vac at full load			
	HOLD UP TIME (Typ.)		16ms/230Vac 8ms/115Vac at full load				
	AC VOLTAGE RANGE		85~264Vac				
	DC VOLTAGE RANGE		120~370Vdc				
	NO LOAD POWER CONSU	JMPTION (Typ.)	<u> </u>	ac 0.8W @115Vac 1W @ 23	30Vac		
IPUT	FREQUENCY RANGE		47 ~ 63Hz				
	EFFICIENCY (Typ.)		89%	91%	91%	91%	
	AC CURRENT (Typ.)		2.6A/115Vac 1.6A/230Vac				
	INRUSH CURRENT (Ty	p.)	COLD START 20A/115Vac 40A/230Vac				
	LEAKAGE CURRENT		<1mA / 240Vac				
	OVERLOAD				out shutdown, recovers automatically a		
	OVERLUAD		105~150% rated output power		out shutdown, recovers automatically a	after fault condition is removed/11	
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		
UNCTION	DC OK RELAY CON	TACT	Relay Contact Ratings (max.):3	30Vdc/1A, 30Vac/0.5A resistive load	1		
	WORKING TEMP. Note.4		-40 ~ +70°C (Refer to "Derating Curve")				
	WORKING HUMIDITY		20 ~ 95% RH non-condensing				
NVIRONMENT			-40 ~ +85°C, 10 ~ 95% RH non-condensing				
	STORAGE TEMP., HUMIDITY						
	TEMP. COEFFICIENT VIBRATION		±0.03% /C (0~50°C) Component:10~500Hz, 2G 10min./1cycle, 60min. each along X, Y, Z axes; Mounting: Compliance to IEC60068-2-6				
	SAFETY STANDARDS		UL61010; TUV BS EN/EN62368-1, BS EN/EN61558-1/-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.5		IEC/EN 61558-1/-2-16 (OVC III, altitude up to 2000m)				
	SAFETY EXTRA-LOW VOLTAGE(SELV)		IEC/EN 62586-1 (OVC 11, allitude up to 5000m) IEC/EN 61558-2-16 (SELV) IEC/EN/UL 61010-2-201 (SELV) IEC/EN 62368-1 (SELV / ES1)				
	WITHSTAND VOLTAGE						
	ISOLATION RESISTAN			00M Ohms/500Vdc/25°C / 70%			
		-	Parameter	Standard		Test Level / Note	
AFETY &			Conducted		2) / BS EN/EN61204-3 / CNS15936	Class B	
MC			Radiated	BS EN/EN55032 (CISPR32) / BS EN/EN61204-3 / CNS15936		Class B	
Note 7)	EMC EMISSION		Harmonic Current	BS EN/EN61000-3-2	,	Class A(≤80% LOAD)	
			Voltage Flicker	BS EN/EN61000-3-2			
				N61204-3, BS EN/EN61000-6-2	(BS FN/FN50082-2)		
			Parameter	Standard	Test Level / Note		
			ESD	BS EN/EN61000-4-2		contact: criteria A	
			Radiated			Level 3, 8KV air ; Level 2, 4KV contact; criteria A	
	EMC IMMUNITY			BS EN/EN61000-4-3 Level 3, 10V/m; criteria A			
	EMC IMMUNIT		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 ; criteri			
			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)				
THERS	DIMENSION		30*125.2*116mm (W*H*D)				
	PACKING		430g; 24pcs/11.3Kg/1.16CUFT				
	 Ripple & noise at Tolerance : inclu When the tempe 	re measure des set up rature is be	d at 20MHz of bandwidth by tolerance, line regulation ar tween -40 ° C and -20 ° C a	vusing a 12" twisted pair-wire and load regulation. nd the input voltage is between	nd 25°C of ambient temperature. terminated with a 0.1 μ F & 47 μ F p and 85V and 90V, the temperature de 00m with fan models for operating a	erating curve drops to 40%.	

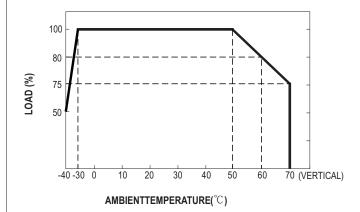
- 6. Installation clearances: 40mm on top, 20mm on the bottom, 5mm on the left and right side are recommended when loaded permanently with full power.
- In case the adjacent device is a heat source, 15mm clearance is recommended.
- 7. The power supply is considered a component which will be installed 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



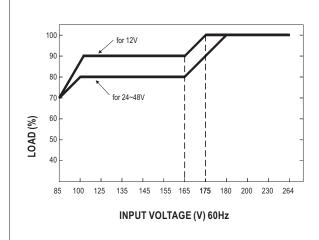
■ Block Diagram



■ Derating Curve



■ Static Characteristics

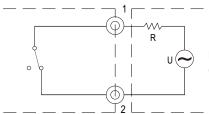


150W AC/DC Economical Ultra Slim Industrial DIN Rail Power XDR-150E series

■ 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



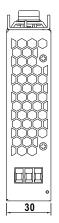




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■ Mechanical Specification

(Unit:mm, Tolerance ±1mm)



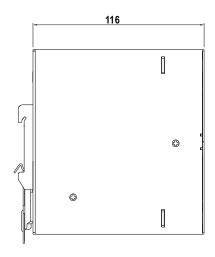
Case No.301

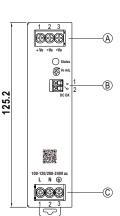
igatimes : Terminal Pin No.Assignment

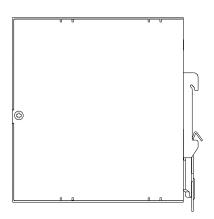
	Pin No.	Assignment	
	1	DC Output +Vo	
2,3		DC Output -Vo	

B: Control Pin No.Assignment

Pin No.	Assignment
1,2	DC OK Relay Contact

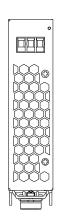






©: Terminal Pin No.Assignment

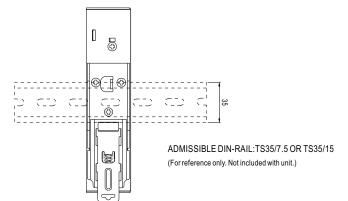
Pin No.	Assignment	
1	AC/L or DC Input +Vin	
2	AC/N or DC Input -Vin	
3	FG (±)	



■ Recommend Wiring

	AC Input T.B	DC Output T.B	Signal connector
Solid Wire	6mm² max.	6mm² max.	1.5mm² max.
A.W.G	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	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