

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

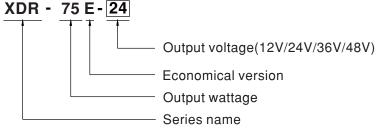
GTIN CODE

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.







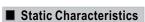
MODEL		XDR-75E-12	XDR-75E-24	XDR-75E-36	XDR-75E-48	
	DC VOLTAGE	12V	24V	36V	48V	
	RATED CURRENT	6.3A	3.2A	2.1A	1.6A	
	CURRENT RANGE	0 ~ 6.3A	0 ~ 3.2A	0~2.1A	0 ~ 1.6A	
	RATED POWER	75.6W	76.8W	75.6W	76.8W	
	RIPPLE & NOISE (max.) Note.2		100mVp-p	120mVp-p	120mVp-p	
	VOLTAGE ADJ. RANGE	12 ~ 15V	24 ~ 29V	36 ~ 42V	48 ~ 55V	
DUTPUT	VOLTAGE TOLERANCE Note.3		±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%	
		111		⊥ 1.0 /0	⊥ 1.0 /0	
	SETUP, RISE TIME	,	,			
	HOLD UP TIME (Typ.)	16ms/230Vac 10ms/115Vac at full load				
	AC VOLTAGE RANGE	85 ~ 264Vac				
	DC VOLTAGE RANGE	120~370Vdc				
	NO LOAD POWER CONSUMPTION (Typ.)		0.8W @115Vac 0.9W @230Vac 0.8W @115Vac 1W @230Vac			
NPUT	FREQUENCY RANGE	47 ~ 63Hz				
	EFFICIENCY (Typ.)	89%	90%	91%	91%	
	AC CURRENT (Typ.)	1.4A/115Vac 0.8A/230Vac				
	INRUSH CURRENT (Typ.)	COLD START 18A/115Vac 35A/230Vac				
	LEAKAGE CURRENT	<1mA / 240Vac				
	OVERLOAD	105-130% rated output power, c	constant current limiting without sl	hutdown, recovers automatically a	fter fault condition is removed	
PROTECTION	OVER VOLTAGE	15 ~ 18V	30 ~ 34V	43 ~ 50V	56 ~ 65V	
	OVER VOLTAGE	Protection type: Shut down o/p voltage, re-power on to recover				
	OVER TEMPERATURE	Protection type: Hiccup mode, re	ecovers automatically after fault	condition is removed		
UNCTION	DC OK RELAY CONTACT	Relay Contact Ratings (max.):30Vo	dc/1A, 30Vac/0.5A resistive load			
	WORKING TEMP.	-40 ~ +70°C (Refer to "Derating C	urve")			
	WORKING HUMIDITY	20 ~ 95% RH non-condensing				
NVIRONMENT	STORAGE TEMP., HUMIDITY	-40 ~ +85°C, 10 ~ 95% RH non-condensing				
	TEMP. COEFFICIENT		ndensing			
	VIBRATION	±0.03% f°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 OVER VOLTAGE CATEGORY Note.4	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 IEC/EN 61558-1/-2-16 (OVC III, altitude up to 2000m)				
		IEC/EN/UL 61010 (OVC Π, altitude up to 5000m) (EC/EN 62368-1 (OVC Π, altitude up to 5000m) (EC/EN 61558-2-16 (SELV)				
	SAFETY EXTRA-LOW VOLTAGE(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	· · · · · · · · · · · · · · · · · · ·	// Ohms/500Vdc/25 °C / 70%RH		1	
		Parameter	Standard		Test Level / Note	
SAFETY &	EMC EMISSION		Conducted BS EN/EN55032 (CISPR32)/ BS EN/EN61204-3 / CNS15936 Class B			
MC		Radiated	BS EN/EN55032 (CISPR32)/ BS	S EN/EN61204-3 / CNS15936	Class B	
Note 6)			Harmonic Current BS EN/EN61000-3-2 Class A			
		-	Voltage Flicker BS EN/EN61000-3-3			
			1204-3, BS EN/EN61000-6-2(BS	,		
		Parameter	Standard	Test Level / Note		
		ESD	BS EN/EN61000-4-2	Level 3, 8KV air ; Level 2, 4KV o	ontact; criteria A	
	EMC IMMUNITY	Radiated	BS EN/EN61000-4-3	Level 3, 10V/m; criteria A		
		EFT / Burst	BS EN/EN61000-4-4 Level 3, 2KV; criteria A			
		Surge	BS EN/EN61000-4-5		I, 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	2425.7K hrs min. Telcordia SR-332 (Bellcore); 533.7K hrs min. MIL-HDBK-217F (25°C)				
THERS	DIMENSION	30*125.2*116mm (W*H*D)				
	PACKING	400g; 24pcs/10.6Kg/1.16CUFT				
	 All parameters NOT specially mentioned are measured at 230Vac input, rated load and 25°C of ambient temperature. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1 μ F & 47 μ F parallel capacitor. Tolerance: includes set up tolerance, line regulation and load regulation. 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 2000. 			altitude higher than 2000m(6500		
NOTE	2. Ripple & noise are measure 3. Tolerance : includes set up 1 4. The ambient temperature de 5. Installation clearances : 40n	ured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1 μ F & 47 μ F parallel capacitor. up tolerance, line regulation and load regulation.				

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



■ Block Diagram PWM fosc: 65KHz RELAY CONTROL → DCOK **EMIFILTER** RECTIFIERS POWER O +Vo & FILTER & RECTIFIERS SWITCHING O.L.P. 0.V.P. PWM O.T.P. CONTROL DETECTION CIRCUIT ■ Derating Curve 100 80 LOAD (%) 75

70 (VERTICAL)



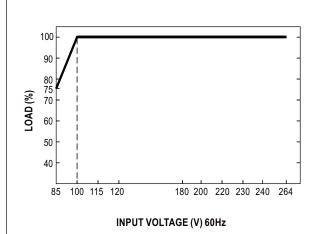
-40 -30 0

10 20 30

 $AMBIENTTEMPERATURE(^{\circ}C)$

40 50

50

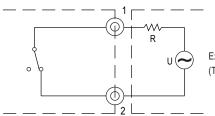




■ Function Manual

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

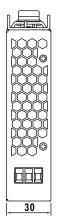






■ Mechanical Specification

(Unit:mm, Tolerance ±1mm)



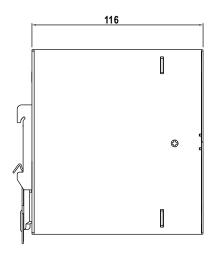
Case No.301

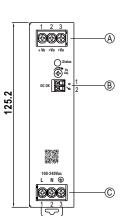
igatharpoonup igap : Terminal Pin No.Assignment

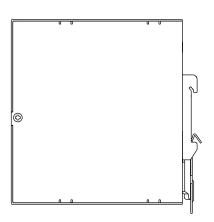
Pin No. Assignment	
1	DC Output +Vo
2,3	DC Output -Vo

B: Control Pin No.Assignment

Pin No.	Assignment
1,2	DC OK Relay Contact

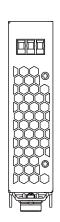






©: Terminal Pin No.Assignment

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

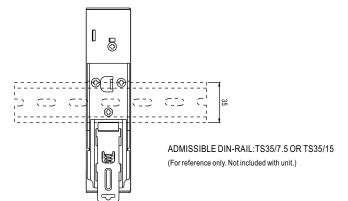


■ Recommend Wiring

	AC Input T.B	DC Output T.B	Signal connector
Solid Wire	6mm² max.	6mm² max.	1.5mm² max.
A.W.G	18~10 AWG	18~10 AWG	24~16 AWG
Wire Stripping Length	7~8mm	7~8mm	8~9mm
Screw Terminal Torque	5 Lb-In	5 Lb-In	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