





































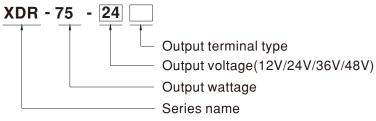
Features

- 85~305Vac input (277Vac available)
- Global certificates in multi-fields(ITE 62368-1,Industrial 61558-1/-2-16,61010) & Marine DNV,SEMI47,CID2 HazLoc approved • Factory automation
- · 30mm ultra slim width
- High efficiency up to 91% and no load power dissipation 0.7W~1W by R.C.
- 200% peak power capability
- 600% pulse current capability
- · 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~+85°C wide range operation temperature(>+60°C derating)
- · Operating altitude up to 5000 meters
- · Built-in remote ON/OFF control and DC OK relay contact
- Ultra low inrush current <6~15A
- Tool free terminal block (LA Type)
- Conformal coating
- · Can be installed on DIN rail TS-35/75 or 15
- 5 years warranty

Description

The XDR-75 series is a 75W AC/DC high-end 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 85~305Vac suitable for global use. It boasts a maximum efficiency of 91% and a low standby power consumption 0.7W~1W for energy savings and carbon reduction. It provides constant current with up to 200% peak power, and can handle instantaneous peak current of 600%. It has a fanless design, ultrawide operating temperature range of -40 to +85°C (up to +60°C at full load); OVCIII compliance; ultra-low inrush current of <6~15A, and includes DC OK and remote ON/OFF functions. The internal PCB has a coating for basic moisture and dust protection, and it has multiple terminal blocks for selection. With comprehensive protection functions, complete safety certifications, and a 5-years warranty, the XDR-75 series is a compact, high-performance, and highly reliable DIN rail power supply.

Model Encoding



Termi	nal Type Options		Note
Blank	Screw Terminal		In stock
LA	Lever Actuated	Ditt	In stock
PI	Push In		In stock

Applications

- · Industrial control system
- Semiconductor fabrication equipment
- · Electro-mechanical apparatus

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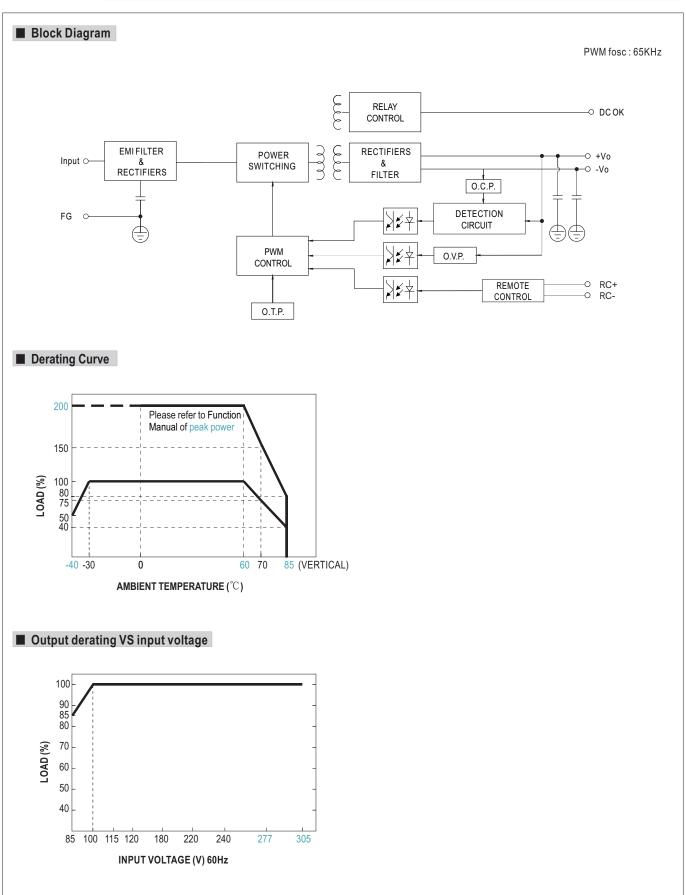
	XDR-75-12□	XDR-75-24 □	XDR-75-36 □	XDR-75-48 □		
SPECIFICATION	□ =Blank, LA, Pl					
OUTPUT						
DC VOLTAGE	12V	24V	36V	48V		
LOAD CURRENT RANGE	0 ~ 6.24A	0 ~ 3.12A	0 ~ 2.08A	0 ~ 1.56A		
RATED POWER	74.88W	74.88W	74.88W	74.88W		
CURRENT (5s	ec.) 12.5A	6.25A	4.17A	3.13A		
PEAK POWER (5sec.	.) 150W					
RIPPLE & NOISE (max.) Note	.2 100mVp-p	100mVp-p	120mVp-p	120mVp-p		
VOLTAGE ADJ. RANGE	12 ~ 15V	24 ~ 29V	36 ~ 42V	48 ~ 56V		
VOLTAGE TOLERANCE Note	±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 lo	oad	·		
HOLD UP TIME (Typ.)	16ms/230Vac 10ms/1	15Vac at full load				
INPUT						
AC VOLTAGE RANGE	85 ~ 305Vac					
DC VOLTAGE RANGE	80~431Vdc (Derating 50°	80~431Vdc (Derating 50% Load @80Vdc)				
NO LOAD Remote Power C	0.7W @115Vac & 230Vac	0.7W @115Vac & 230Vac 1W @115Vac & 230Vac				
CONSUMPTION(Typ.) Remote Power O	1.5W @115Vac & 230Vac					
FREQUENCY RANGE	47 ~ 63Hz	47 ~ 63Hz				
EFFICIENCY (Typ.)	89%	90%	91%	91%		
AC CURRENT (Typ.)	1.5A/115Vac 0.9A/230	Vac 0.8A/277Vac				
INRUSH CURRENT (Typ.)	COLD START 6A/115Va	COLD START 6A/115Vac 10A/230Vac 15A/277Vac				
LEAKAGE CURRENT	<1mA / 240Vac <1.5n	<1mA / 240Vac <1.5mA / 277Vac				
PROTECTION						
OVERLOAD		105%~200% rated output power for more than 5 sec then constant current limiting at rate current without shutdown when Vo=10%~100%; Hiccup or Latch mode when Vo<10% rated voltage.				
OVERVOLTACE	16~19V	30 ~ 34V	43 ~ 50V	57 ~ 66 V		
OVER VOLTAGE	Protection type : Shut down	Protection type: Shut down o/p voltage, re-power on to recover				
OVER TEMPERATURE	Protection type : Shut down	Protection type: Shut down o/p voltage, recovers automatically after temperature goes down				
FUNCTION						
DC OK RELAY CONTACT	Relay Contact Ratings (ma	Relay Contact Ratings (max.):30Vdc/1A, 30Vac/0.5A resistive load				
REMOTE CONTROL	Power ON :RC + ~ RC- ke	Power ON :RC + ~ RC- keep<0.5Vdc				
KEMOTE CONTINUE	Power OFF:RC + ~ RC- ke	Power OFF:RC + ~ RC- keep 4~5Vdc				
PULSE CURRENT CAPABLILTY	12V: 500% rated current fo	12V: 500% rated current for 4ms; 24V/36V/48V: 600% rated current for 4ms				
ENVIRONMENT						
WORKING TEMP.	-40 ~ +85°C (Refer to "Dera	-40 ~ +85°C (Refer to "Derating Curve")				
WORKING HUMIDITY	20 ~ 95% RH non-condensi	20 ~ 95% RH non-condensing				
STORAGE TEMP., HUMIDITY	-40 ~ +85°C, 10 ~ 95% RH	-40 ~ +85°C, 10 ~ 95% RH non-condensing				
TEMP. COEFFICIENT	$\pm 0.03\%$ /°C (0 ~ 60°C) on	$\pm 0.03\%$ $^{\circ}$ C (0 ~ 60 $^{\circ}$ C) on Load output				



		XDR-75-12□	XDR-75-24 □	XDR-75-36 □	XDR-75-48□
SPECIFICATION		☐ =Blank, LA, PI			
SAFETY & EMC	Note.4				
SAFETY STANDARDS		CB IEC62368-1, IEC61558-1, IEC61010; DEKRA BS EN/EN62368-1,BS EN/EN61558-1/-2-16,BS EN/EN61010 UL UL121201/CSA C22.2 NO.213.17 Class I,DIV2 Group A,B,C,D Hazardous Locations T4;UL61010 RCM AS/NZS 62368-1, AS/NZS 61558-1/-2-16; CCC GB4943.1; BSMI CNS15598-1; EAC EAC TPTC004 approved; KC KC62368-1 and BIS IS13252 (Part 1):2010 certified, no stock ,contact sale for inquires			
OVER VOLTAGE CATEGORY	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		
		Parameter	Standard		Test Level / Note
		Conducted	BS EN/EN55032 (CISPF BS EN/EN61204-3 / CN	, I	Class B
EMC EMISSION		Radiated	BS EN/EN55032 (CISPF BS EN/EN61204-3 / CN	· /	Class B
		Harmonic Current	BS EN/EN61000-3-2		Class A
		Voltage Flicker	BS EN/EN61000-3-3		
		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 4, 15KV air ; Level 4, 8KV contact; criteria A
		Radiated	BS EN/EN61000-4-3		Level 3, 10V/m; criteria A
EMC IMMUNITY		EFT / Burst	BS EN/EN61000-4-4		Level 4, 4KV; 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		1907.3K hrs min. Telcordia SR-332 (Bellcore); 333.9K hrs min. MIL-HDBK-217F (25°C)			
DIMENSION		30*125.2*116mm (W*H*D)			
PACKING		496g; 24pcs/12.9Kg/1.27CUFT			
NOTE					

- 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 μ F & 47 μ F parallel capacitor.
- 3. Tolerance: includes set up tolerance, line regulation and load regulation.
- 4. 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)
- 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.
- ※ Product Liability Disclaimer: For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx



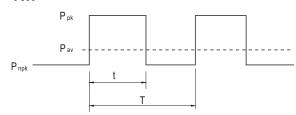


■ Peak Power

$$P_{av} = \frac{P_{pk} \ x \ t + P_{npk} \ x \ (T-t)}{T} \, \leqslant \, P_{rated}$$

Duty =
$$\frac{t}{T}$$
 x 100% $\leq 35\%$

 $t \le 5 \sec$



Pav: Average output power (W)

P_{pk}: Peak output power (W)

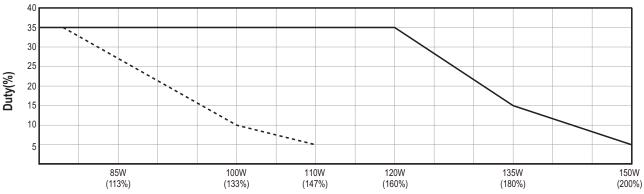
P_{npk}: Non-peak output power(W)

Prated : Rated output power(W)

t: Peak power width (sec)

T: Period(sec)

---- 100Vac 200Vac



Peak output power (W)

For example (24V model):

$$P_{av} = P_{rated} = 75W$$

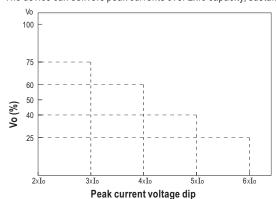
$$t \le 5 \sec$$

$$T \ge \frac{5 \text{ sec}}{5\%} \ge 100 \text{sec}$$

$$P_{npk} \leqslant \frac{T P_{av} - t P_{pk}}{T - t}$$

■ Transient peak current Capability

The device can delivers peak currents over 2xlo capacity, sustained for several milliseconds.



Load	Vo(%)	12V	24V/36V/48V
Load		Time	Time
3xIo	75	6ms	8ms
4xIo	60	3ms	6ms
5xIo	40	2ms	5ms
6xIo	25		4ms

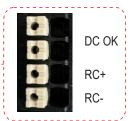
Note: The time indicated in the table refers to Power on AC for more than 3 seconds before applying load.



■ 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; Contact ratings (max.): 30Vdc/1A,30Vac/0.5A resistive load.		Contact open : PSU turns OFF/DC_fail;
3	RC+	Turns the output ON and OFF by electrical signal
4	RC-	Remote power ON: keep<0.5Vdc Remote power OFF: keep 4~5Vdc

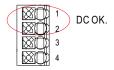


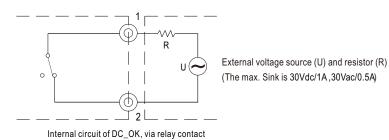




1.DC OK Relay Contact

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

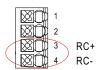


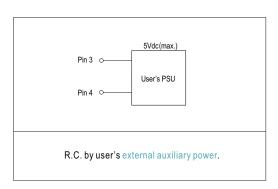


2.Remote ON/OFF Control

The PSU can be turned ON/OFF by using the "Remote Control" function.

PSU Vo Status	Between RC+(Pin3) and RC-(Pin 4)
Remote power ON	Keep<0.5Vdc
Remote power OFF	Keep 4~5Vdc

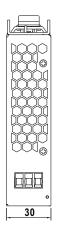






■ Mechanical Specification

(Unit:mm , Tolerance ±1mm)



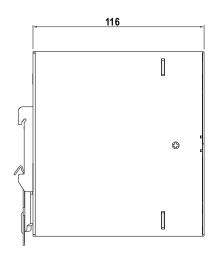
Case No.301

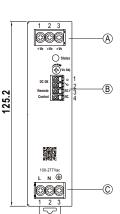
(A): Terminal Pin No.Assignment

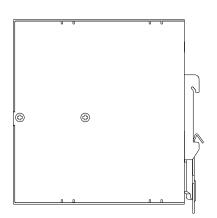
Pin No.	Assignment	
1	DC Output +Vo	
2,3	DC Output -Vo	

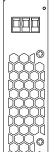
(B): Control Pin No. Assignment

	•
Pin No.	Assignment
1,2	DC OK Relay Contact
3	RC+
4	RC-









©: Terminal Pin No.Assignment

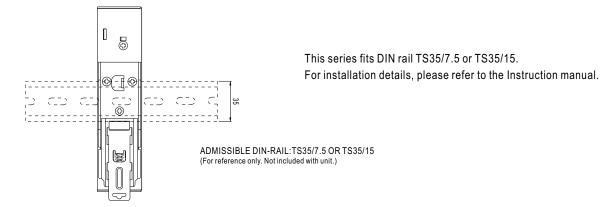
Pin No.	Assignment	
1	AC/L or DC Input +Vin	
2	AC/N or DC Input -Vin	
3	FG 🖶	

■ 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



■ Installation Manual

Please refer to: http://www.meanwell.com/manual.html