





































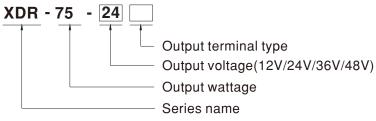
Features

- 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	Terminal Type Options				
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

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



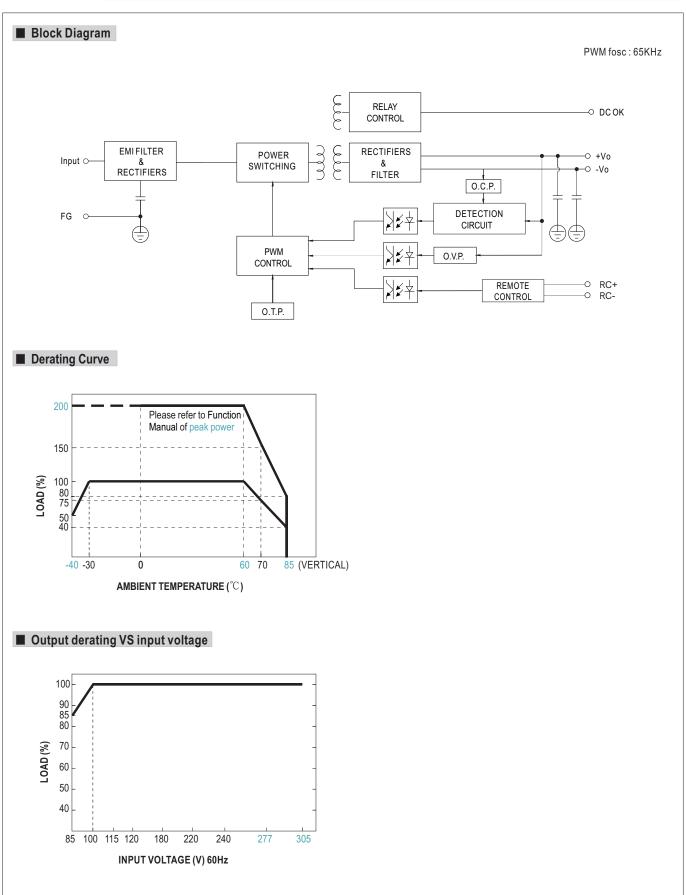
		XDR-75-12□	XDR-75-24□	XDR-75-36 □	XDR-75-48□	
SPECIFICATION		□ =Blank, LA, PI				
OUTPUT						
DC VOLTAGE		12V	24V	36V	48V	
LOAD CURRENT RANG	E	0 ~ 6.24A	0 ~ 3.12A	0~2.08A	0 ~ 1.56A	
RATED POWER		74.88W	74.88W	74.88W	74.88W	
DEAL.	CURRENT (5sec.)	12.5A	6.25A	4.17A	3.13A	
PEAK	POWER (5sec.)	150W				
RIPPLE & 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.3	±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 25	00ms, 60ms/115Vac at full load			
HOLD UP TIME (Typ.)		16ms/230Vac 10ms/115Va	ac at full load			
INPUT						
AC VOLTAGE RANGE		85 ~ 305Vac				
DC VOLTAGE RANGE		80~431Vdc(Derating 50% Lo	pad @80Vdc)			
NO LOAD F	Remote Power OFF	0.7W @115Vac & 230Vac 1W @115Vac & 230Vac				
CONSUMPTION(Typ.)	Remote Power ON	1.5W @115Vac & 230Vac				
FREQUENCY RANGE		47 ~ 63Hz				
EFFICIENCY (Typ.)		89%	90%	91%	91%	
AC CURRENT (Typ.)		1.5A/115Vac 0.9A/230Vac	0.8A/277Vac			
INRUSH CURRENT (Tyl	o.)	COLD START 6A/115Vac 10A/230Vac 15A/277Vac				
LEAKAGE CURRENT		<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.				
OVER VOLTAGE		16 ~ 19V	30 ~ 34V	43 ~ 50V	57 ~ 66 V	
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 temperature goes down				
FUNCTION						
DC OK RELAY CONTAC	т	Relay Contact Ratings (max.):30Vdc/1A, 30Vac/0.5A resistive load				
REMOTE CONTROL		Power ON :RC + ~ RC- keep<0.5Vdc				
		Power OFF:RC + ~ RC- keep 4~5Vdc				
PULSE CURRENT CAPABLILTY		12V: 500% rated current for 4ms; 24V/36V/48V: 600% rated current for 4ms				
ENVIRONMENT						
WORKING TEMP.		-40 ~ +85°C (Refer to "Derating Curve")				
WORKING HUMIDITY		20 ~ 95% RH non-condensing				
STORAGE TEMP., HUM	IDITY	-40 ~ +85°C, 10 ~ 95% RH non-condensing				
TEMP. COEFFICIENT		$\pm 0.03\%$ °C (0 ~ 60 °C) on Load output				
VIBRATION		Component:10 ~ 500Hz, 2G 10min./1cycle, 60min. each along X, Y, Z axes; Mounting: Compliance to IEC60068-2-6				



		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	Note.5	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-D0	COK: 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	′	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



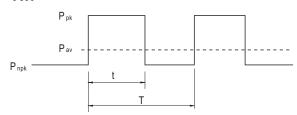


■ Peak Power (≤2 *lo)

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

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

 $t \le 5 \sec$



Pav: Average output power (W)

P_{pk}: Peak output power (W)

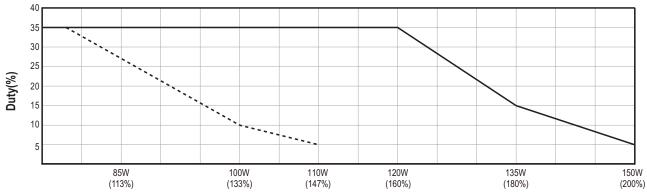
P_{npk}: Non-peak output power(W)

Prated: Rated output power(W)

t: Peak power width (sec)

T: Period(sec)

---- 100Vac 200Vac



Peak output power (W)

For example (24V model):

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

$$t \le 5 \sec$$

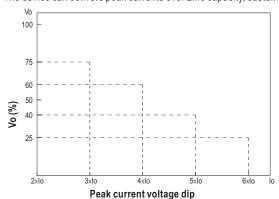
$$T \ge \frac{5 \text{ sec}}{5\%}$$
 100sec

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

$$P_{npk} \le 71W$$

■ Peak Current Capability

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



Load	Vo(%)	12V	24V/36V/48V
	VO(/0)	Time	Time
3xlo	75	6ms	8ms
4xIo	60	3ms	6ms
5xlo	40	2ms	5ms
6xlo	25		4ms

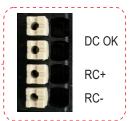
Note: The time indicated in the table refers to Power on AC for more than 3 seconds before applying load.



■ 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.
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

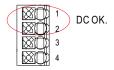


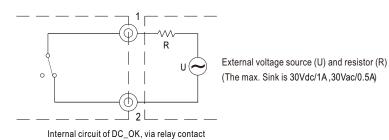




1.DC OK Relay Contact

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

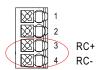


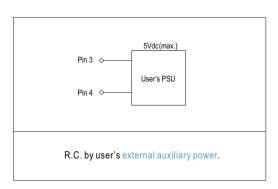


2.Remote ON/OFF Control

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

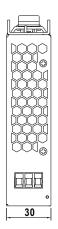






■ Mechanical Specification

(Unit:mm , Tolerance ±1mm)



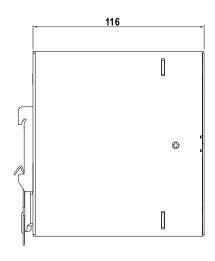
Case No.301

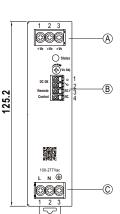
(A): Terminal Pin No.Assignment

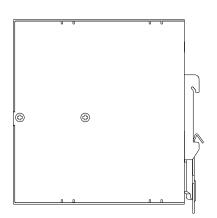
Pin No.	Assignment	
1	DC Output +Vo	
2,3	DC Output -Vo	

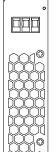
(B): Control Pin No. Assignment

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









©: Terminal Pin No.Assignment

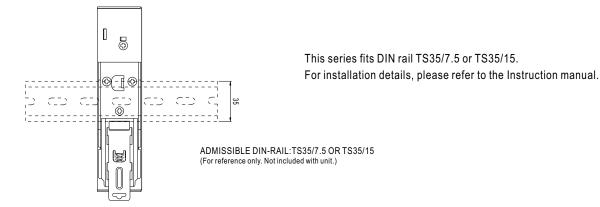
Pin No.	o. Assignment	
1	AC/L or DC Input +Vin	
2	AC/N or DC Input -Vin	
3	FG 🖶	

■ 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