



User's Manual

LISTED
UL61010BS EN/EN62368-1
BS EN/EN61558-1
BS EN/EN61010IEC62368-1
IEC61558-1
IEC61010AS/NES61558-1
AS/NES62368-1

(By request)

KC62368-1
(By request)CNS15598-1
GB4943.1
TPTC004
(Applying)

Applications

- Industrial control system
- Semiconductor fabrication equipment
- Factory automation
- Electro-mechanical apparatus
- Battery charger

GTIN CODE

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

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

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 Encoding

XDR - 75 E - 24

Output voltage(12V/24V/36V/48V)

Economical version

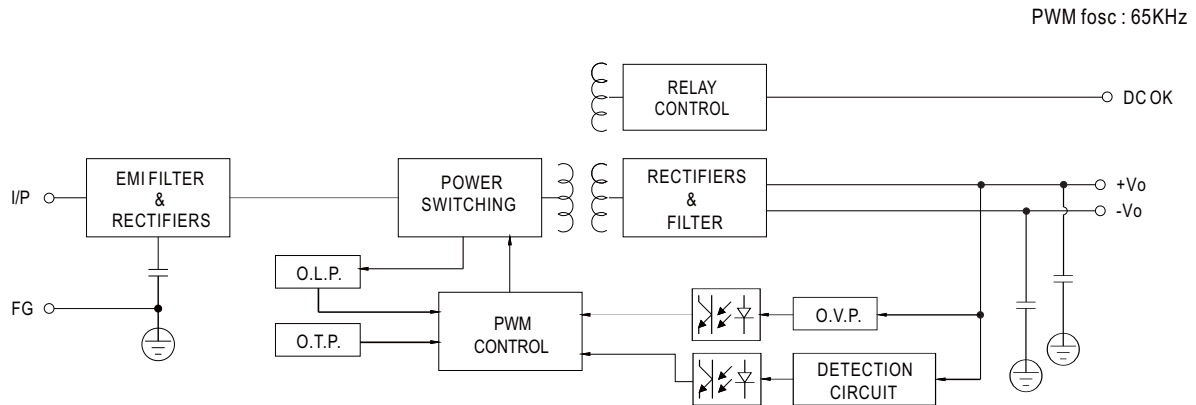
Output wattage

Series name

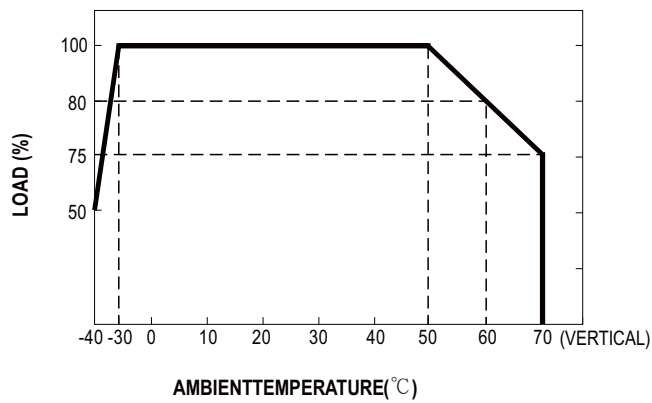
SPECIFICATION

MODEL		XDR-75E-12		XDR-75E-24		XDR-75E-36		XDR-75E-48			
OUTPUT	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		100mVp-p		120mVp-p		120mVp-p		
	VOLTAGE ADJ. RANGE		12 ~ 15V		24 ~ 29V		36 ~ 42V		48 ~ 55V		
	VOLTAGE TOLERANCE		Note.3 ± 2.0%		± 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 load								
	HOLD UP TIME (Typ.)		16ms/230Vac 10ms/115Vac at full load								
INPUT	AC VOLTAGE RANGE		85 ~ 264Vac								
	DC VOLTAGE RANGE		120 ~ 370Vdc								
	NO LOAD POWER CONSUMPTION (Typ.)		0.5W @115Vac 0.7W @230Vac		0.8W @115Vac 0.9W @230Vac		0.8W @115Vac 1W @230Vac				
	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								
PROTECTION	OVERLOAD		105-130% rated output power, constant current limiting without shutdown, recovers automatically after fault condition is removed								
	OVER VOLTAGE		15 ~ 18V		30 ~ 34V		43 ~ 50V		56 ~ 65V		
			Protection type : Shut down o/p voltage, re-power on to recover								
OVER TEMPERATURE		Protection type : Hiccup mode, recovers automatically after fault condition is removed									
FUNCTION	DC OK RELAY CONTACT		Relay Contact Ratings (max.):30Vdc/1A, 30Vac/0.5A resistive load								
ENVIRONMENT	WORKING TEMP.		-40 ~ +70℃ (Refer to "Derating Curve")								
	WORKING HUMIDITY		20 ~ 95% RH non-condensing								
	STORAGE TEMP., HUMIDITY		-40 ~ +85℃, 10 ~ 95% RH non-condensing								
	TEMP. COEFFICIENT		± 0.03% /℃ (0 ~ 50℃)								
	VIBRATION		Component:10 ~ 500Hz, 2G 10min./1cycle, 60min. each along X, Y, Z axes; Mounting: Compliance to IEC60068-2-6								
SAFETY & EMC (Note 6)	SAFETY STANDARDS		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 inquiries								
	OVER VOLTAGE CATEGORY		Note.4		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℃ / 70%RH								
	EMC EMISSION		Parameter		Standard				Test Level / Note		
			Conducted		BS EN/EN55032 (CISPR32)/ BS EN/EN61204-3 / CNS15936				Class B		
			Radiated		BS EN/EN55032 (CISPR32)/ BS EN/EN61204-3 / CNS15936				Class B		
			Harmonic Current		BS EN/EN61000-3-2				Class A		
			Voltage Flicker		BS EN/EN61000-3-3				-----		
	EMC IMMUNITY		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 3, 8KV air ; Level 2, 4KV contact; criteria A		
			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				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		2425.7K hrs min. Telcordia SR-332 (Bellcore) ;		533.7K hrs min. MIL-HDBK-217F (25℃)				
	DIMENSION		30*125.2*116mm (W*H*D)								
	PACKING		400g; 24pcs/10.6Kg/1.16CUFT								
NOTE	1. All parameters NOT specially mentioned are measured at 230Vac input, rated load and 25℃ 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 ambient temperature derating of 3.5℃/1000m with fanless models and of 5℃/1000m with fan models for operating altitude higher than 2000m(6500ft). 5. 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. 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 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										

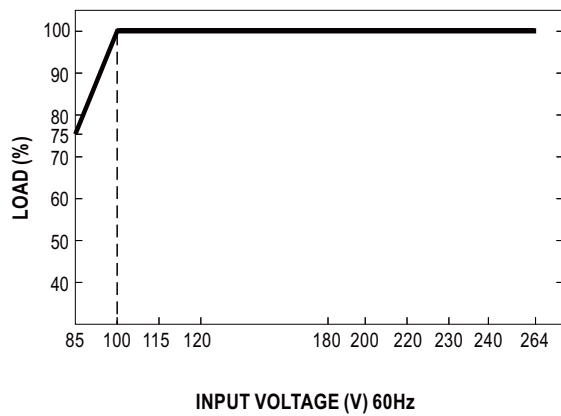
■ Block Diagram



■ Derating Curve



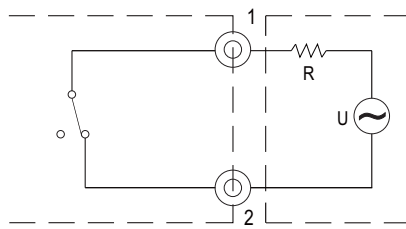
■ Static Characteristics



■ Function Manual

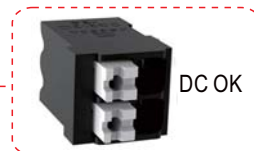
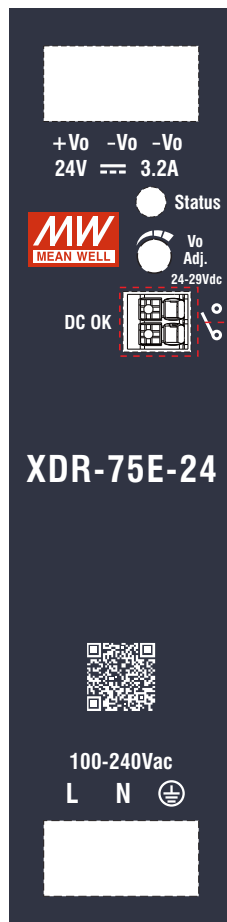
1.DC OK Relay Contact

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)

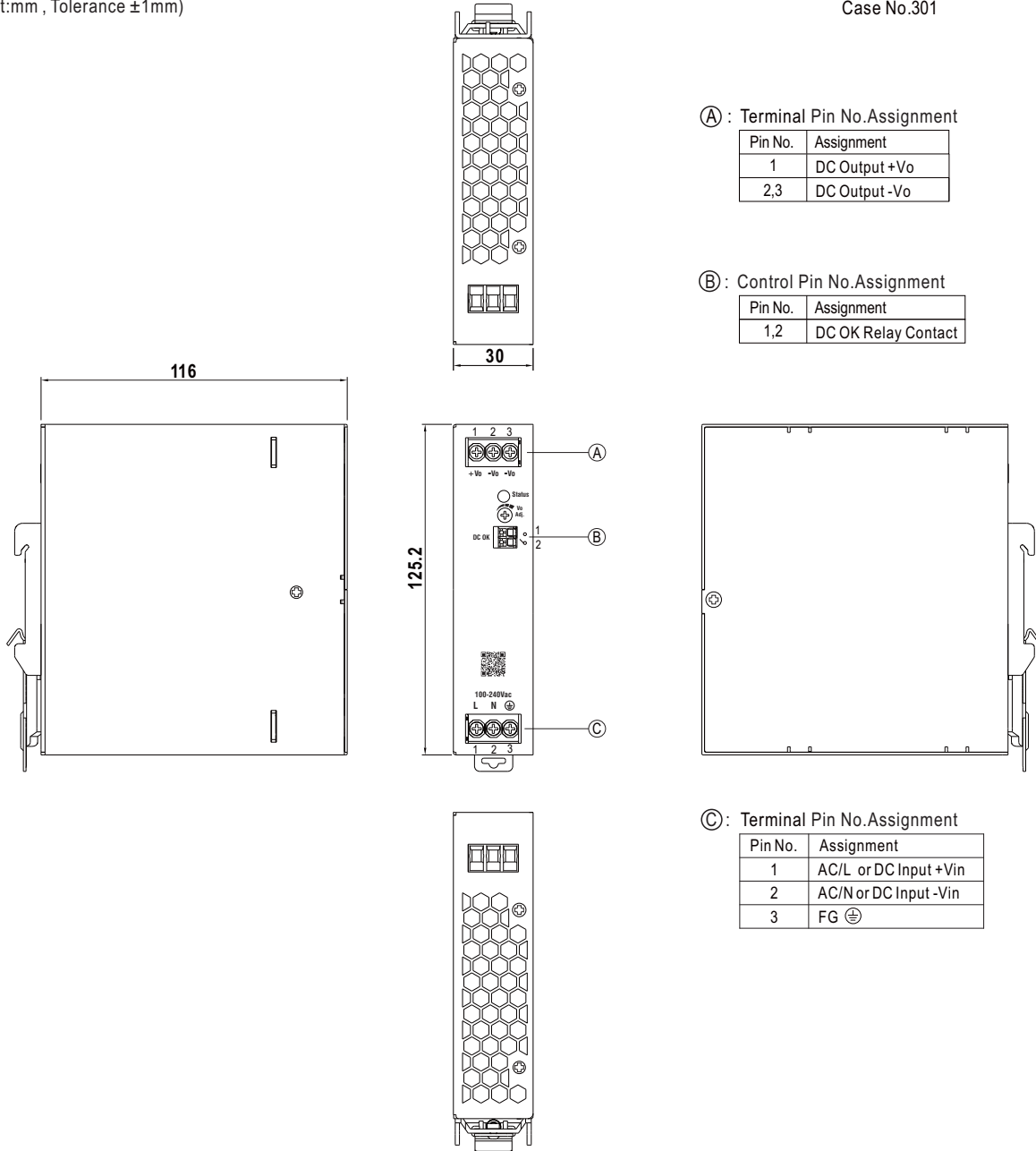
Internal circuit of DC_OK, via relay contact



■ Mechanical Specification

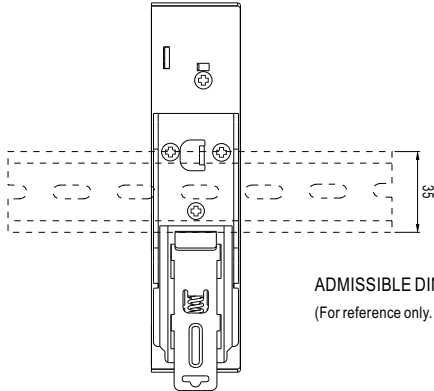
(Unit:mm , Tolerance ± 1 mm)

Case No.301



■ Recommend Wiring

	AC Input T.B	DC Output T.B	Signal connector
Solid Wire	6mm ² max.	6mm ² max.	1.5mm ² 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	/

■ Installation Instruction

ADMISSIBLE DIN-RAIL: TS35/7.5 OR TS35/15
(For reference only. Not included with unit.)

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>