

IEC62368-1
IEC61558-1
IEC61010-1

IS 13252
(By request)
KC62368-1
(By request)



■ Features

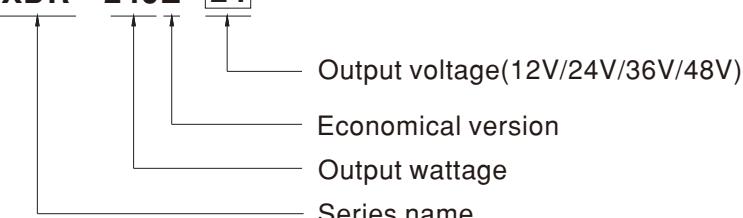
- 85~264Vac input with PFC
- **Global certificates in multi-fields**
(ITE 62368-1, Industrial 61558-1/-2-16,61010)
- 40mm slim width
- High efficiency up to 95.5% and no load power dissipation<1.2W
- Built-in **constant current** limiting circuit
- Protections: Short circuit / Overload / Over voltage
/ 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-240E series is a 240W AC/DC economical ultra slim industrial DIN rail power. Key features of this series include a narrow 40mm casing, optimizing system installation space, and an ultra-wide input range of 85~264Vac suitable for global use. It boasts a maximum efficiency of 95.5% and a low standby power consumption<1.2W 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-240E series is a compact, high-performance, and highly reliable DIN rail power supply.

■ Model Encoding

XDR - 240E - [24]



■ Applications

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

■ GTIN CODE

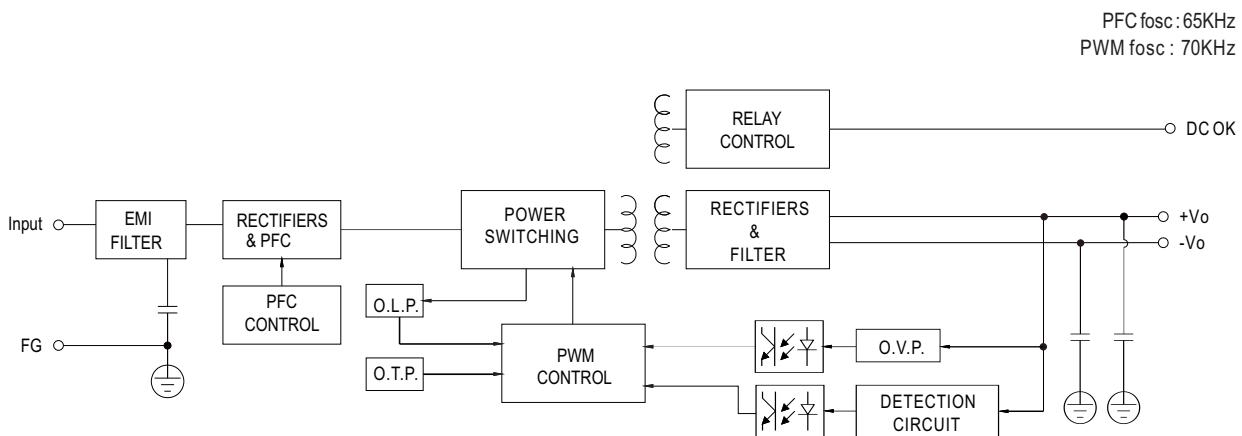
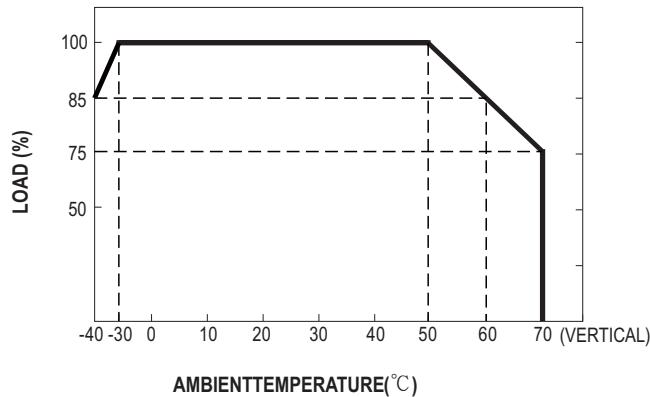
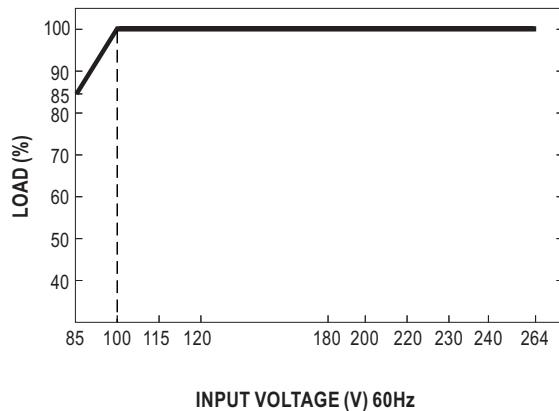
MW Search: <https://www.meanwell.com/serviceGTIN.aspx>



SPECIFICATION	XDR-240E-12	XDR-240E-24	XDR-240E-36	XDR-240E-48
OUTPUT				
DC VOLTAGE	12V	24V	36V	48V
RATED CURRENT	20A	10A	6.66A	5A
CURRENT RANGE	0 ~ 20A	0 ~ 10A	0 ~ 6.66A	0 ~ 5A
RATED POWER	240W			
RIPPLE & NOISE (max.)	Note.2 100mVp-p	100mVp-p	120mVp-p	150mVp-p
VOLTAGE ADJ. RANGE	12 ~ 15V	24 ~ 29V	36 ~ 42V	48 ~ 55V
VOLTAGE TOLERANCE	Note.3 $\pm 2.0\%$	$\pm 1.0\%$	$\pm 1.0\%$	$\pm 1.0\%$
LINE REGULATION	$\pm 0.5\%$	$\pm 0.5\%$	$\pm 0.5\%$	$\pm 0.5\%$
LOAD REGULATION	$\pm 1.0\%$	$\pm 1.0\%$	$\pm 1.0\%$	$\pm 1.0\%$
SETUP, RISE TIME	1200ms, 60ms/230Vac	2500ms, 150ms/115Vac at full load		
HOLD UP TIME (Typ.)	20ms/230Vac	20ms/115Vac at full load		
INPUT				
AC VOLTAGE RANGE	85 ~ 264Vac			
DC VOLTAGE RANGE	120 ~ 370Vdc			
NO LOAD POWER CONSUMPTION (Typ.)	1W @115Vac & 230Vac		1.2W @115Vac & 230Vac	
FREQUENCY RANGE	47 ~ 63Hz			
POWDR FACTOR (Typ.)	PF>0.95/230Vac	PF>0.98/115Vac at full load		
EFFICIENCY (Typ.)	94%	95.2%	95.5%	95.5%
AC CURRENT (Typ.)	2.6A/115Vac	1.3A/230Vac		
INRUSH CURRENT (Typ.)	COLD START 15A/115Vac	30A/230Vac		
LEAKAGE CURRENT	<1mA / 240Vac			
PROTECTION				
OVERLOAD	105~130% rated output power			
	Hiccup mode when output voltage <30%, recovers automatically after fault condition is removed Constant current limiting without shutdown within 30%~100% rated output voltage, recovers automatically after fault condition is removed			
OVER VOLTAGE	Max. 18V	Max. 35V	Max. 50V	Max. 63V
	Protection type : Hiccup mode, recovers automatically after fault condition is removed			
OVER TEMPERATURE	Protection type : Shut down o/p voltage, recovers automatically after temperature goes down			
FUNCTION				
DC OK RELAY CONTACT	Relay Contact Ratings (max.):30Vdc/1A, 30Vac/0.5A resistive load			
ENVIRONMENT				
WORKING TEMP.	-40 ~ +70°C (Refer to "Derating Curve")			
WORKING HUMIDITY	20 ~ 95% RH non-condensing			
STORAGE TEMP., HUMIDITY	-40 ~ +85°C, 10 ~ 95% RH non-condensing			
TEMP. COEFFICIENT	$\pm 0.03\% /^{\circ}\text{C}$ (0 ~ 50°C)			
VIBRATION	Component:10 ~ 500Hz, 2G 10min./1cycle, 60min. each along X, Y, Z axes; Mounting: Compliance to IEC60068-2-6			

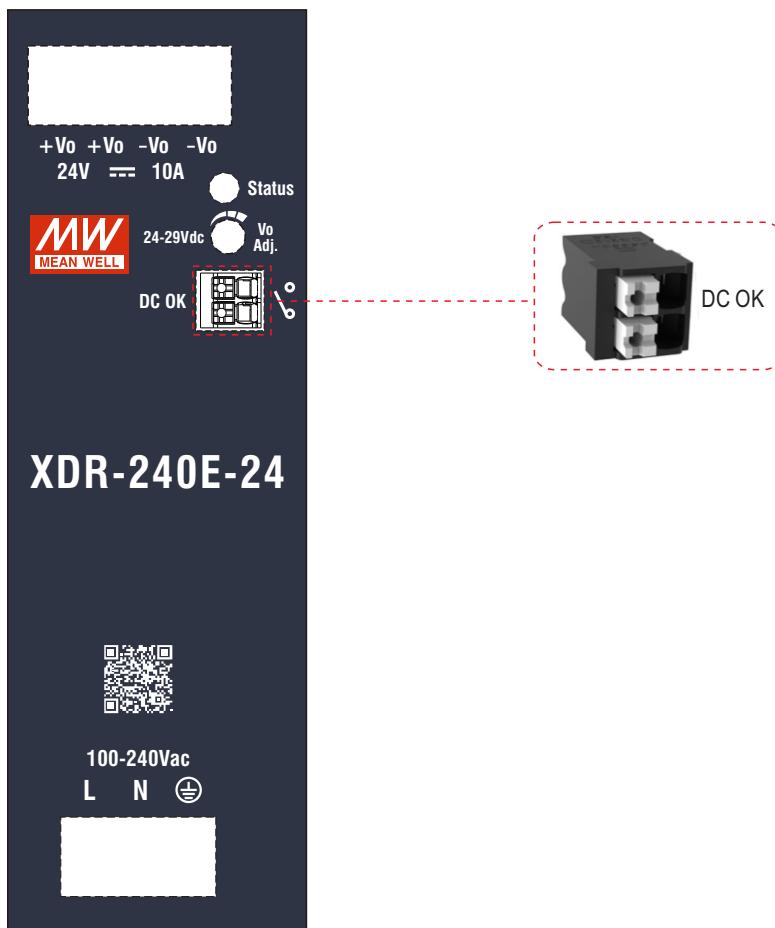
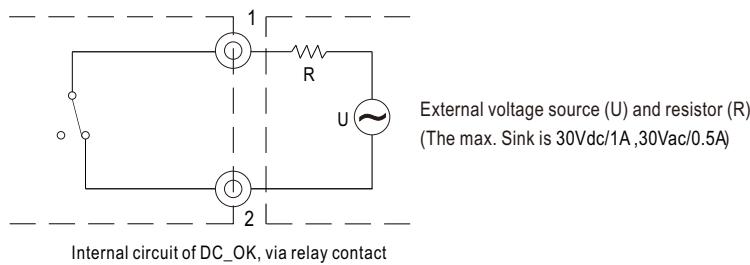


SPECIFICATION		XDR-240E-12	XDR-240E-24	XDR-240E-36	XDR-240E-48							
SAFETY & EMC		Note.6&7&8										
SAFETY STANDARDS		CB IEC 62368-1, IEC 61558-1/2-16, IEC 61010-1/-2-201 TUV BS EN/EN 62368-1, BS EN /EN 61558-1/-2-16, BS EN/EN 61010-1/-2-201 UL UL/CUL 61010-1/-2-201 CCC GB4943.1 BSMI CNS15598-1 EAC TPTC004 approved KC/BIS KC 62368-1 and BIS IS 13252 (Part 1) certified, no stock by request ,contact sales for inquires										
OVER VOLTAGE CATEGORY	Note.4	IEC/EN 61558-1/-2-16 (OVC III, altitude up to 2000m) IEC/EN/UL 61010-1/-2-201 (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 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										
EMC EMISSION	Parameter	Standard	Test Level / Note									
	Conducted	BS EN/EN55032 (CISPR32) / BS EN/EN61204-3 / CNS15936 / KS C 9832	Class B									
	Radiated	BS EN/EN55032 (CISPR32) / BS EN/EN61204-3 / CNS15936 / KS C 9832	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), KS C 9835											
	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									
OTHERS		BS EN/EN61000-4-8										
MTBF	1723.2K hrs min.	Telcordia SR-332 (Bellcore) ;	324.4K hrs min.	MIL-HDBK-217F (25°C)								
DIMENSION	40*125.2*116mm (W*H*D)											
PACKING	610g; 16pcs/12.2Kg/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 μF & 47 μF parallel capacitor.												
3. Tolerance : includes set up tolerance, line regulation and load regulation.												
4. 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).												
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)												
7. The Regulatory Compliance Mark (RCM) is applied on a voluntary basis. The equipment meets the relevant IEC or AS/NZS standards, or AS/NZS 3820 where applicable. The use of the RCM mark complies with AS/NZS 4417.1.												
8. Some factory or model may not have the BIS logo, please contact your MEAN WELL sales for more information.												
※ Product Liability Disclaimer : For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx												

Block Diagram

Derating Curve

Static Characteristics


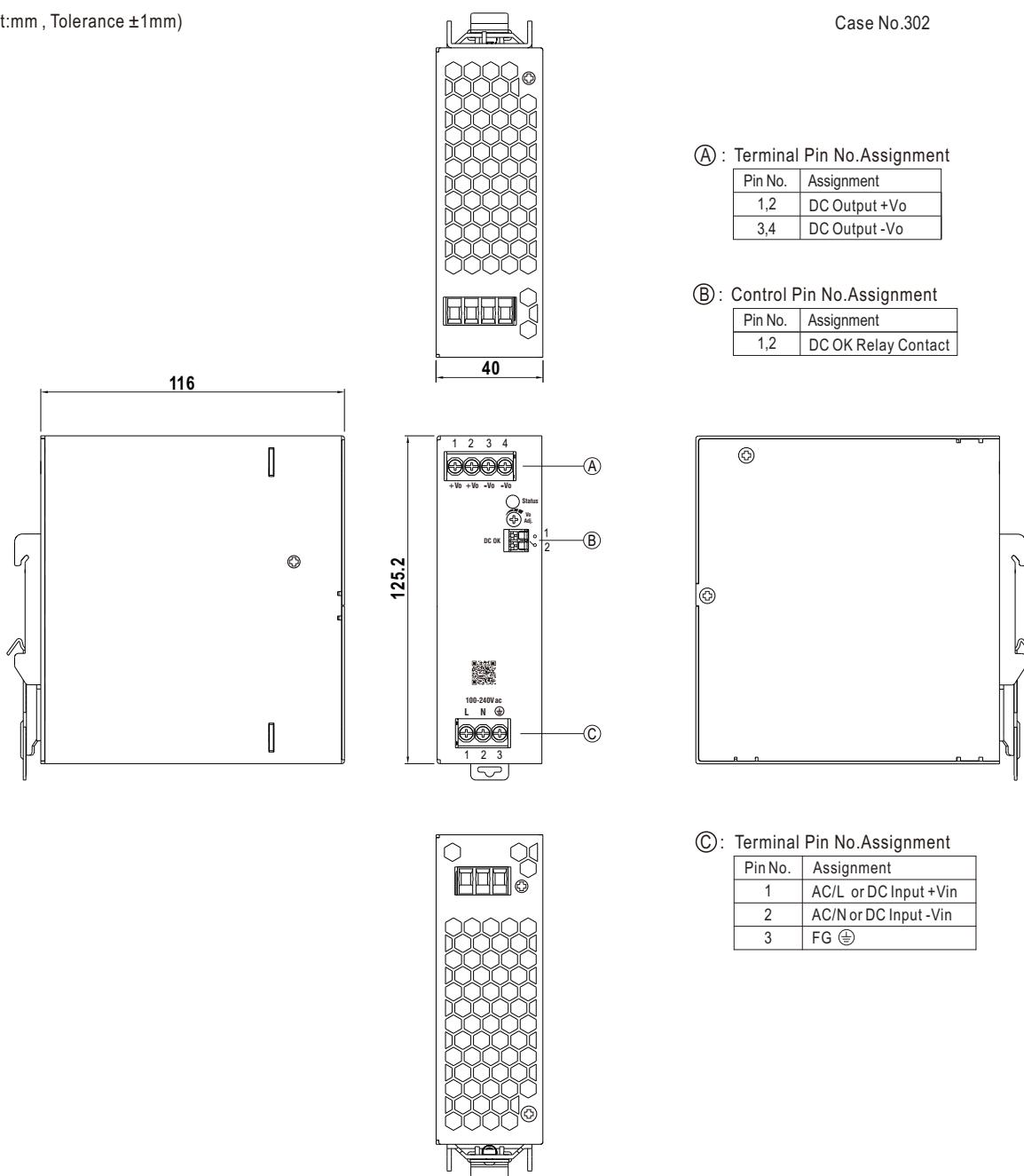
Function Manual**1.DC OK Relay Contact**

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



■ Mechanical Specification

(Unit:mm , Tolerance ± 1 mm)



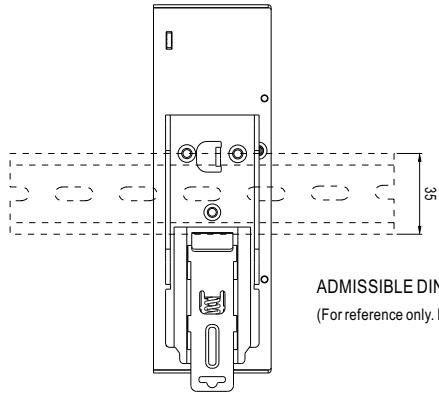
■ Recommend Wiring

	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	XDR-240E-12	20~10 AWG	24~16 AWG
	XDR-240E-24/36/48		
Wire Stripping Length	7~8mm	7~8mm	8~9mm
Screw Terminal Torque	5 Lb-In	5 Lb-In	/



240W AC/DC Economical Ultra Slim Industrial DIN Rail Power **XDR-240E** series

■ Installation Instruction



This series fits DIN rail TS35/7.5 or TS35/15.
For installation details, please refer to the Instruction manual.

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

■ Installation Manual

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