

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

Applications

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

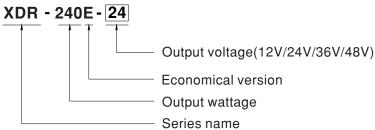
GTIN CODE

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

Description

The XDR-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



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

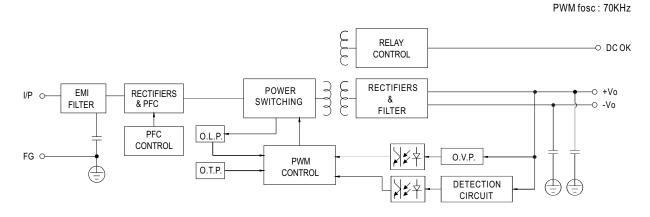
SPECIFICATION

OUTPUT RIPPLE & NOISE (max.) Note.2 100		24V 10A 0 ~ 10A	36V 6.66A	48V 5A	
OUTPUT RATED POWER	~ 20A 0W			5A	
RATED POWER	0W	0 ~ 10A	0 6 664	1 ** *	
OUTPUT RIPPLE & NOISE (max.) Note.2 100			0 ~ 6.66A	0 ~ 5A	
OUTPUT VOLTAGE ADJ. RANGE VOLTAGE TOLERANCE LINE REGULATION LOAD REGULATION SETUP, RISE TIME HOLD UP TIME (Typ.) AC VOLTAGE RANGE DC VOLTAGE RANGE NO LOAD POWER CONSUMPTION (Typ.) FREQUENCY RANGE AC CURRENT (Typ.) POWDR FACTOR (Typ.) EFFICIENCY (Typ.) AC CURRENT (Typ.) LEAKAGE CURRENT OVERLOAD PROTECTION OVER VOLTAGE OVER VOLTAGE WORKING TEMP.	0mVp-p				
VOLTAGE ADJ. RANGE	-····	100mVp-p	120mVp-p	150mVp-p	
VOLTAGE TOLERANCE	! ~ 15V	24 ~ 29V	36 ~ 42V	48 ~ 55V	
LINE REGULATION	2.0%	±1.0%	±1.0%	±1.0%	
LOAD REGULATION		±0.5%	±0.5%	±0.5%	
SETUP, RISE TIME		±1.0%	±1.0%	±1.0%	
HOLD UP TIME (Typ.) 20m			⊥ 1.0 /6	⊥ 1.0 /0	
AC VOLTAGE RANGE 85 ~	1200ms, 60ms/230Vac 2500ms, 150ms/115Vac at full load				
DC VOLTAGE RANGE	20ms/230Vac 20ms/115Vac at full load				
NO LOAD POWER CONSUMPTION (Typ.) 1W (FREQUENCY RANGE 47 ~	85~264Vac				
FREQUENCY RANGE	120~370Vdc				
POWDR FACTOR (Typ.)	1W @115Vac & 230Vac 1.2W @115Vac & 230Vac				
POWDRYACTOR (Typ.) 945	47~63Hz				
AC CURRENT (Typ.) INRUSH CURRENT (Typ.) LEAKAGE CURRENT OVERLOAD OVERLOAD OVER VOLTAGE OVER TEMPERATURE FUNCTION DC OK RELAY CONTACT WORKING TEMP. WORKING HUMIDITY STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT VIBRATION SAFETY STANDARDS OVER VOLTAGE CATEGORY Note.4 IECC SAFETY EXTRA-LOW VOLTAGE (SELV)	PF>0.95/230Vac PF>0.98/115Vac at full load				
AC CURRENT (Typ.) INRUSH CURRENT (Typ.) LEAKAGE CURRENT OVERLOAD OVERLOAD OVER VOLTAGE OVER TEMPERATURE FUNCTION DC OK RELAY CONTACT WORKING TEMP. WORKING HUMIDITY STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT VIBRATION SAFETY STANDARDS OVER VOLTAGE CATEGORY Note.4 IECC SAFETY EXTRA-LOW VOLTAGE (SELV)	%	95.2%	95.5%	95.5%	
INRUSH CURRENT (Typ.) LEAKAGE CURRENT OVERLOAD OVERLOAD OVER VOLTAGE OVER TEMPERATURE FUNCTION DC OK RELAY CONTACT WORKING TEMP. WORKING HUMIDITY STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT VIBRATION SAFETY STANDARDS OVER VOLTAGE CATEGORY Note.4 SAFETY EXTRA-LOW VOLTAGE (SELV) OVER VOLTAGE (SELV)	A/115Vac 1.3A/230Vac				
LEAKAGE CURRENT OVERLOAD OVERLOAD OVER VOLTAGE OVER TEMPERATURE FUNCTION DC OK RELAY CONTACT WORKING TEMP. WORKING HUMIDITY STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT VIBRATION SAFETY STANDARDS OVER VOLTAGE CATEGORY Note.4 IECC SAFETY EXTRA-LOW VOLTAGE (SELV)		0A/230Vac			
OVERLOAD OVERLOAD Hic Cor Cor OVER VOLTAGE OVER TEMPERATURE FUNCTION DC OK RELAY CONTACT WORKING TEMP. WORKING HUMIDITY STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT VIBRATION SAFETY STANDARDS OVER VOLTAGE CATEGORY Note.4 SAFETY EXTRA-LOW VOLTAGE (SELV) OVER VOLTAGE (SELV)	mA / 240Vac	0/1/200740			
PROTECTION OVER VOLTAGE OVER TEMPERATURE FUNCTION DC OK RELAY CONTACT WORKING TEMP. WORKING HUMIDITY TEMP. COEFFICIENT VIBRATION SAFETY STANDARDS OVER VOLTAGE CATEGORY Note.4 SAFETY EXTRA-LOW VOLTAGE (SELV) I MA MA A Ma Pro A A Pro 40 CO CO TEMP CO SAFETY EXTRA-LOW VOLTAGE (SELV)					
PROTECTION OVER VOLTAGE OVER TEMPERATURE FUNCTION DC OK RELAY CONTACT WORKING TEMP. WORKING HUMIDITY ENVIRONMENT STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT VIBRATION SAFETY STANDARDS OVER VOLTAGE CATEGORY Note.4 SAFETY EXTRA-LOW ICO SAFETY EXTRA-LOW ICO SAFETY EXTRA-LOW ICO ICO ICO SAFETY EXTRA-LOW ICO ICO ICO ICO ICO ICO ICO I	5~130% rated output power	e <30% recovers automatical	ly after fault condition is removed		
DOTE			rated output voltage, recovers automatic	ally after fault condition is removed	
OVER VOLTAGE Pro OVER TEMPERATURE Prot FUNCTION DC OK RELAY CONTACT WORKING TEMP. WORKING HUMIDITY ENVIRONMENT STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT VIBRATION SAFETY STANDARDS OVER VOLTAGE CATEGORY Note. 4 OVER VOLTAGE CATEGORY Note. 4 SAFETY EXTRA-LOW VOLTAGE CATEGORY VOLTAGE VOLTAGE CATEGORY VOLTAGE CA	ax. 18V	Max. 35V	Max. 50V	Max. 63V	
OVER TEMPERATURE Prot FUNCTION DC OK RELAY CONTACT Rela WORKING TEMP40 WORKING HUMIDITY 20- ENVIRONMENT STORAGE TEMP., HUMIDITY -40 VIBRATION Con SAFETY STANDARDS RC OVER VOLTAGE CATEGORY Note.4 SAFETY EXTRA-LOW VOLTAGE (SELV)	otection type : Hiccup mode, re			max. oo v	
FUNCTION DC OK RELAY CONTACT Related working temp. WORKING HUMIDITY 20- ENVIRONMENT STORAGE TEMP., HUMIDITY -40 VIBRATION Contact Con	**	<u> </u>			
WORKING TEMP. WORKING HUMIDITY STORAGE TEMP., HUMIDITY TEMP. COEFFICIENT VIBRATION SAFETY STANDARDS OVER VOLTAGE CATEGORY SAFETY EXTRA-LOW VOLTAGE SELV.)	Protection type: Shut down o/p voltage,recovers automatically after temperature goes down Relay Contact Ratings (max.):30Vdc/1A, 30Vac/0.5A resistive load				
WORKING HUMIDITY 20- STORAGE TEMP., HUMIDITY -40 TEMP. COEFFICIENT ±0. VIBRATION Con SAFETY STANDARDS RC EAC OVER VOLTAGE CATEGORY Note.4 SAFETY EXTRA-LOW VOLTAGE (SELV.)		·			
STORAGE TEMP., HUMIDITY	1~+70°C (Refer to "Derating Co	urve")			
TEMP. COEFFICIENT ±0. VIBRATION Com SAFETY STANDARDS RC OVER VOLTAGE CATEGORY Note.4 IECC SAFETY EXTRA-LOW IEC	20 ~ 95% RH non-condensing				
VIBRATION Con SAFETY STANDARDS RC EAC OVER VOLTAGE CATEGORY Note.4 IEC SAFETY EXTRA-LOW VOLTAGE (SELV)	$-40 \sim +85^{\circ}\mathrm{C}$, $10 \sim 95\%$ RH non-condensing				
SAFETY STANDARDS RC EAG OVER VOLTAGE CATEGORY Note.4 SAFETY EXTRA-LOW VOLTAGE (SELV)	±0.03% /°C (0~50°C)				
SAFETY STANDARDS RC EAG OVER VOLTAGE CATEGORY Note.4 IEC IEC SAFETY EXTRA-LOW VOLTAGE (SELV)	Component:10 ~ 500Hz, 2G 10min./1cycle, 60min. each along X, Y, Z axes; Mounting: Compliance to IEC60068-2-6				
OVER VOLTAGE CATEGORY Note.4 IECO IECO SAFETY EXTRA-LOW IECO IECO IECO IECO IECO IECO IECO IECO	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				
SAFETY EXTRA-LOW IEC	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)				
IEC	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: 2KV	•			
	-O/P, I/P-FG, O/P-FG: 100M				
Day	rameter	Standard	WI .	Test Level / Note	
SAFEIY&	nducted) / BS EN/EN61204-3 / CNS15936	Class B	
EMC Day	diated	•) / BS EN/EN61204-3 / CNS15936	Class B	
(NOTE 6) EMC EMISSION	rmonic Current		, . 20 ENTENO 1207-0 / ONO 10000	Class A	
	Itage Flicker	BS EN/EN61000-3-2		O1033 A	
	EN/EN55035 , BS EN/EN61	BS EN/EN61000-3-3	RS EN/EN50082-2\	·	
	rameter	204-3, BS EN/EN01000-6-20	Test Level / Note		
				antaati aritaria A	
ESI		BS EN/EN61000-4-2	Level 3, 8KV air ; Level 2, 4KV co	ontact; criteria A	
FMC IMMUNITY	diated	BS EN/EN61000-4-3	Level 3, 10V/m; criteria A		
	T / Burst	BS EN/EN61000-4-4	Level 3, 2KV ; criteria A		
	rge	BS EN/EN61000-4-5		4KV/Line-Line-Chassis ;criteria	
	nducted	BS EN/EN61000-4-6	Level 3, 10V; criteria A		
Ma	ignetic Field	BS EN/EN61000-4-8	Level 4, 30A/m; criteria A	Vm ; criteria A	
	1723.2K hrs min. Telcordia SR-332 (Bellcore); 324.4K hrs min. MIL-HDBK-217F (25°ℂ)				
OTHERS DIMENSION 40	40*125.2*116mm (W*H*D)				
PACKING 610	610g; 16pcs/12.2Kg/1.27CUFT				
Tolerance : includes set up toleration The ambient temperature deration	20MHz of bandwidth by us rance, line regulation and k ng of 3.5°C/1000m with fan on top, 20mm on the botton	ing a 12" twisted pair-wire pad regulation. less models and of 5° C/100n, 5mm on the left and right	and 25° C of ambient temperature. terminated with a 0.1 μ F & 47 μ F parameters with fan models for operating also side are recommended when loaded	titude higher than 2000m(6500f	
6. The power supply is considered EMC directives. (as available on	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 **File Name:XDR-240E-SPEC 2025-03-2				

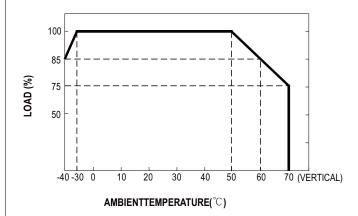
PFC fosc: 65KHz



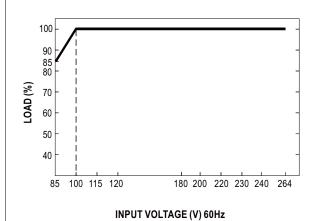
■ Block Diagram



■ Derating Curve



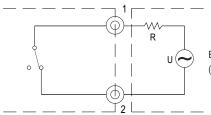
■ Static Characteristics



■ 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

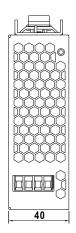






■ Mechanical Specification

(Unit:mm, Tolerance ±1mm)



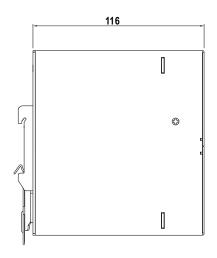
Case No.302

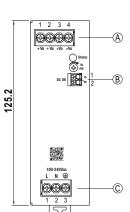
(A): Terminal Pin No. Assignment

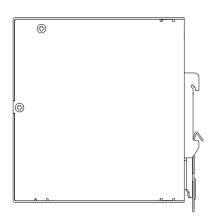
Pin No.	No. Assignment	
1,2	DC Output +Vo	
3,4	DC Output -Vo	

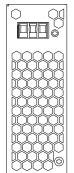
B: Control Pin No. Assignment

_		
	Pin No.	Assignment
	1,2	DC OK Relay Contact









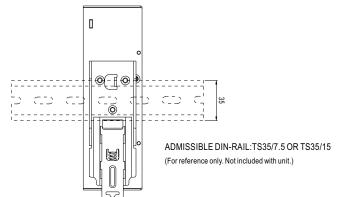
©: Terminal Pin No.Assignment

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 Wi	re	6mm² max.	6mm² max.	1.5mm² max.
A.W.G	XDR-240E-12	- 20~10 AWG	14~10 AWG	24~16 AWG
	XDR-240E-24/36/48		18~10 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