

Наличие и актуальные цены на

XDR-960E-36

https://www.mean-well.ru/store/XDR-960E-36/



XDR-960E 960W AC/DC Economical Ultra Slim Industrial DIN Rail Power series

User's Manual



- Over voltage category III (OVC III)
- -40 \sim +70 $^{\circ}$ C wide range operation temperature (>+50 $^{\circ}$ 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-960E series is a 960W AC/DC economical ultra slim industrial DIN rail power. Key features of this series include a narrow 96mm casing, optimizing system installation space. It boasts a maximum efficiency of 95.5% and a low standby power consumption <3.6W for energy savings and carbon reduction. It has built-in constant current, fanless design, a wide operating temperature range of -40 to +70 $^{\circ}$ (up to +50 $^{\circ}$ at full load); OVCIII compliance; parallel function capability up to 3840W; built-in DC OK signal. With comprehensive protection functions, complete safety certifications, and a 3-years warranty, the XDR-960E series is a compact, high-performance, and highly reliable DIN rail power supply.



File Name:XDR-960E-SPEC 2025-06-06



960W AC/DC Economical Ultra Slim Industrial DIN Rail Power **XDR-960E** series

SPECIFICATION	XDR-960E-24	XDR-960E-36	XDR-960E-48		
OUTPUT					
DC VOLTAGE	24V	36V	48V		
RATED CURRENT	40A	26.6A	20A		
CURRENT RANGE	0~40A	0~26.6A	0~20A		
RATED POWER	960W	957.6W	960W		
RIPPLE & NOISE (max.) Note.2	120mVp-p	150mVp-p	150mVp-p		
VOLTAGE ADJ. RANGE	24~29V	36~42V	48~55V		
VOLTAGE TOLERANCE Note.3	±1.0%	±1.0%	±1.0%		
LINE REGULATION	±0.5%	±0.5%	±0.5%		
LOAD REGULATION	±1.0%	±1.0%	±1.0%		
SETUP, RISE TIME	500ms, 50ms/230Vac at full load				
HOLD UP TIME (Typ.)	15ms/230Vac at full load				
INPUT					
AC VOLTAGE RANGE	180~264Vac				
DC VOLTAGE RANGE	254.5 ~ 370Vdc				
NO LOAD POWER CONSUMPTION (Typ.)	2.7W @ 230Vac	3.6W @ 230Vac			
FREQUENCY RANGE	47~63Hz				
POWDR FACTOR (Typ.)	PF>0.95/230Vac at full load				
EFFICIENCY (Typ.)	94.5%	95%	95.5%		
AC CURRENT (Typ.)	4.5A/230Vac				
INRUSH CURRENT (Typ.)	COLD START 30A/230Vac				
LEAKAGE CURRENT	<3.5mA/240Vac				
PROTECTION					
	105~130% rated output power				
OVERLOAD	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				
	30~34V	43~50V	56 ~ 65V		
OVER VOLTAGE	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					
PARALLEL(Droop Mode)	Up to 3840W or (3+1) units;Please refer to F	unction Manual for more details			
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	±0.03% /°C (0~50°C)				
VIBRATION	Component: 10 ~ 500Hz, 2G 10min./1cycle, 60min. each along X, Y, Z axes; Mounting: Compliance to IEC60068-2-6				



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SPECIFICATION	XDR-960E-24	XDR-960E-36	XDR-960E-48		
SAFETY & EMC	Note.6				
SAFETY STANDARDS	RCM AS/NZS 62368-1, AS/NZS	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			
OVER VOLTAGE CATEGORY	Note.4 IEC/EN/UL 61010 (OVC II, a				
SAFETY EXTRA-LOW VOLTAGE(SE		IEC/EN/UL 61010-2-201 (SELV)			
WITHSTAND VOLTAGE	I/P-O/P: 4KVac I/P-FG: 2KVac	I/P-O/P: 4KVac I/P-FG: 2KVac O/P-FG: 1.5KVac O/P-DC OK: 0.5KVac			
SOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG: 100M C	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 (CISPR32) / BS EN/EN61204-3 / CNS15936	Class B		
EMC EMISSION	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			
	BS EN/EN55035 , BS EN/EN6120	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		
MC IMMUNITY	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		
THERS					
ITBF	1147.2K hrs min. Telcordia SF	1147.2K hrs min. Telcordia SR-332 (Bellcore) ; 169.9K hrs min. MIL-HDBK-217F (25°C)			
DIMENSION	96*125.2*132mm (W*H*D)	96*125.2*132mm (W*H*D)			
ACKING	1.7Kg; 6pcs/11.2Kg/1.57CUFT	1.7Kg; 6pcs/11.2Kg/1.57CUFT			
юте					
. All parameters NOT specially mentioned are measured at 230Vac input, rated load and 25 $^\circ \! \mathbb C$ of ambient temperature.					

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 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)

% Product Liability Disclaimer : For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx



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Function Manual

Pin No.	Function	Description Contact Close: PSU turns ON/DC_OK Contact Open: PSU turns OFF/DC_fail P _{LINK} should be short to enable droop parallel use.(Default disable)	
1,2	DC OK Relay Contact		
3,4	Paraller Use Link(PLINK)		

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

2.Parallel Use

XDR-960E has the built-in droop mode current sharing function and can be connected in parallel, up to 4 units, to provide higher output power as exhibited below : (1) Difference of output voltages among parallel units should be less than 0.1V.

- (2) The total output current must not exceed the value determined by the following equation (Output current at parallel operation)=(The rated current per unit) x (Number of unit) x 0.9.
- (3) In parallel operation 4 units is the maximum, please consult the manufacture for other applications.
- (4) The power supplies should be paralleled using short and large diameter wiring and then connected to the load.
- (5) When in parallel operation, the minimum output load should be greater than 7% of total output load. (Min. load >7% rated current per unit x number of unit) (6) In parallel connection, maybe only one unit (master) operate if the total output load is less than 7% of rated load condition.
- The other PSUs (slaves) may go into standby mode and their output LEDs & relays will not turn on.
- (7) P_{LINK} lines should be shorted locally.
- (8) The "Parallel Use" mode regulates the output voltage in such a manner that the voltage at no load is approx. 4% higher than at normal load.





DC OK



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% Please contact MEAN WELL for more details.





	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	18~8 AWG	24~16 AWG
Wire Stripping Length	10~11mm	10~11mm	8~9mm
Screw Terminal Torque	9 Lb-In	9 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