

Наличие и актуальные цены на

XTR-960-48

https://www.mean-well.ru/store/XTR-960-48/



- Built-in ORing FET
- Tool free terminal block (LA type)
- · Conformal coating
- Can be installed on DIN Rail TS-35/7.5 or 15
- 5 years warranty

Description

The XTR-960 series is a 960W AC/DC 3Ø 320~600Vac input ultra slim industrial high-reliability DIN rail power. Key features of this series include a narrow 96 mm casing, optimizing system installation space, it boasts a maximum efficiency of 96% and a low standby power consumption <3.1W by remote control for energy savings and carbon reduction. It provides constant current with up to 200% peak power; fanless design , ultra-wide operating temperature range of -40 to +85°C (up to +60°C at full load); OVCIII compliance; parallel function capability up to 3840W; ultra-low inrush current of <10A; built-in Remote Control ,DC OK and ORing FET; internal PCB coating offers 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 XTR-960 series is a compact, high-performance, and highly reliable DIN rail power supply.



Terminal Type Options			Note
Blank	Screw Terminal		In stock
LA	Lever-Actuated	A A A A A A A A A A A A A A A A A A A	In stock
PI	Push In	15555	In stock

File Name:XTR-960-SPEC 2025-06-30



960W AC/DC 3Ø Input Ultra Slim Industrial DIN Rail Power XTR-960 series

Specification			XTR-960-24□○	XTR-960-36□○	XTR-960-48□○	
			🗆 =Blank, LA, Pl 🛛 🔿 =Blanl	, GL		
OUTPUT						
DC VOL	TAGE		24V	36V	48V	
RATED CURRENT			40A	26.66A	20A	
CURREN	IT RANGE		0~40A	0~26.66A	0~20A	
RATED P	OWER		960W	959.76W	960W	
	CURRENT(5	i sec.)	80A	53.3A	40A	
PEAK	PEAK POWER(5 sec.)		1920W	1918.8W	1920W	
RIPPLE &	& NOISE (max) Note.2	120mVp-p	150mVp-p	150mVp-p	
VOLTAG	E ADJ. RANG	E	24 ~ 29V	36 ~ 42V	48 ~ 55V	
VOLTAG	E TOLERANC	E Note.3	±1.0%	±1.0%	±1.0%	
LINE RE	GULATION		±0.5%	±0.5%	±0.5%	
LOAD RE	EGULATION		±1.0%	±1.0%	±1.0%	
SETUP, F	RISE TIME		800ms, 60ms/400Vac 600ms, 60ms	/500Vac at full load		
HOLD UP	P TIME (Typ.)		20ms / 400Vac 20ms / 500Vac at ful	lload		
INPUT						
VOLTAG	ERANGE	Note.4	Three-Phase 320 ~ 600Vac (Dual phase of	operation possible) 450 ~ 800Vdc		
NO LOAD	POWER	Remote Power OFF	3.1W/400Vac	3.1W/400Vac	3.1W/400Vac	
	IPTION (Typ.)	Remote Power ON	6.5W/400Vac	6.5W/400Vac	6.5W/400Vac	
FREQUE	NCY RANGE		47 ~ 63Hz			
POWER	FACTOR (Typ).)	PF≧0.92/400Vac PF≧0.9/500Vac at full load			
EFFICIE	NCY (Typ.)		95%	95.5%	96%	
AC CUR	RENT (Typ.)		2A/400Vac 1.4A/500Vac			
INRUSH	CURRENT (T)	/p.)	COLD START 10A/500Vac			
LEAKAG	E CURRENT		<3.5mA / 530Vac			
PROTEC	TION					
			105%~200% rated output power for more than 5 sec then constant current limiting without shutdown at rate current when Vo=30%~100%			
OVERLO	JAD		Hiccup mode when Vo<30% rated voltage			
OVER VO			30 ~ 35V	43 ~ 50V	56 ~ 65V	
			Protection type : Shut down o/p voltage, re-power on to recover			
OVER TE	EMPERATURE		Shut down o/p voltage, recovers automatically after temperature goes down			
FUNCTI	ON		1			
PARALL	EL		Up to 3840W (3+1), please refer to Function Manual for more details			
DC OK RELAY CONTACT		CT	Relay Contact Ratings (max.):30Vdc/1A, 30Vac/0.5A resistive load			
REMOTE	E CONTROL		Power ON :RC + ~ RC- open or keep 2~5Vdc			
			Power OFF: RC + ~ RC- short or keep<0.5Vdc			
ENVIRONMENT						
WORKING TEMP. Note.5		Note.5	-40 ~ +85°C (Refer to "Derating Curve")			
WORKING HUMIDITY			20 ~ 95% RH non-condensing			
STORAG	GE TEMP., HUN	IIDITY	-40 ~ +85°C, 10 ~ 95% RH non-condensing			
TEMP. COEFFICIENT			±0.03%/°C (0~60°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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SAFETY & EMC Note.7				
SAFETY STANDARDS	UL121201/CSA C22.2 NO.213.17 Class I, Div. 2 Group A, B, C, D Hazardous Locations T4; 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; Marine DNV (for GL type only) KC KC62368-1 and BIS IS13252 (Part 1):2010 certified, no stock ,contact sale for inquires			
OVER VOLTAGE CATEGORY Note.6	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)	/UL 61010-2-201 (SELV)		
WITHSTAND VOLTAGE	I/P-O/P:4.87KVac I/P-FG:2.5KVac	O/P-FG:0.5KVac O/P-DC OK:0.5KV	Vac	
ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG:>100M Ohms	ĴM Ohms / 500Vdc / 25℃/ 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/EN61204-3	, BS EN/EN61000-6-2:2005 , BS EN/EN	N IEC61000-6-2:2019	
	Parameter	Standard Test Level / Note		
	ESD	BS EN/EN61000-4-2	Level 4, 15KV air ; Level 4, 8KV contact	
	Radiated Field	BS EN/EN61000-4-3	Level 3, 10V/m ; criteria A	
	EFT / Burst	BS EN/EN61000-4-4	Level 4, 4KV ; criteria A	
EMC IMMUNITY	Surge	BS EN/EN61000-4-5	Level 4, 2KV / Line-Line, Level 4, 4KV/ Line-Ea	
	Conducted	BS EN/EN61000-4-6	Level 3, 10V/m ; criteria A	
	Magnetic Field	BS EN/EN61000-4-8	Level 4, 30A/m ; criteria A	
	Voltage Dips and Interruptions	BS EN/EN61000-4-11	>95% dip 0.5 periods, 30% dip 25 periods> 95% interruptions 250 periods	
OTHERS	·	· · · · · · · · · · · · · · · · · · ·		
MTBF	936.0K hrs min. Telcordia SR-332(Bellcore); 117.5K hrs min. MIL-HDBK-217F (25° C)			
DIMENSION	96*125.2*132mm (W*H*D)			
PACKING	1.8Kg ; 6pcs/15Kg/1.1CUFT			
NOTE	·			
1. All parameters NOT specially mentioned 2. Ripple & noise are measured at 20MHz	• •			

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. Dual phase operation is allowed under certain derating to output load. Please refer to derating curves for details.

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 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).

7. The power supply is considered as an independent unit, but the final equipment still need to re-confirm that the whole system complies with the EMC directives. For guidance on how to perform these EMC tests, please refer to "EMI testing of component power supplies." (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



960W AC/DC 3Ø Input Ultra Slim Industrial DIN Rail Power XTR-960 series

Block Diagram





Peak Power





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	P+	Current sharing signal. When units are connected in parallel, the P+ pins of the units should be connected mutually to allow current balance between units.
4	P-	Current sharing signal. When units are connected in parallel, the P- pins of the units should be connected mutually to allow current balance between units. P- Signal is internally connected to -Vo.
5	RC+	Turns the output ON and OFF by electrical singal Remote power ON : Open or keep 2~5Vdc
6	RC-	Remote power OFF: Short or keep<0.5Vdc





1.Parallel Use

- XTR-960 has the built-in active current sharing function and can be connected in parallel, up to 4 units, to provide higher output power as exhibited below :
- (1) Parallel operation is available by connecting the units shown as below (P+,P- are connected mutually in parallel).
- (2) Difference of output voltages among parallel units should be less than 0.2V.
- (3) 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.
- (4) In parallel operation 4 units is the maximum, please consult the manufacture for other applications.
- (5) The power supplies should be paralleled using short and large diameter wiring and then connected to the load.

(6) When in parallel operation, the minimum output load should be greater than 5% of total output load. (Min. load >5% rated current per unit x number of unit) (7) P+ and P- lines should be twisted in pairs



※ Please contact MEAN WELL for more details.

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.







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5 RC+

6 RC-

3.Remote ON/OFF Control

The PSU can be turned ON/OFF by using the "Remote Control" function.		
	PSU Vo Status	Between RC+ and RC-
	Remote power ON	Open or keep 2~5Vdc
	Remote power OFF	Short or keep<0.5Vdc



4. Protection Against Reverse Voltages from the Load

Prevent PSU damage from Back Electro magnetic Force during deceleration of motor or inductive load.



PSU'S ORing FET turn OFF voltage		
MODEL	Max. allowable reverse voltage	
XTR-960-24	<35V	
XTR-960-36	<50V	
XTR-960-48	<63V	







Accessory List and Installation Diagram for GL Type

- The GL Type model is recommended for GNV certification or high vibration application.
- The GL Type model include the following accessories.



$\%~{\rm GL}$ Type mechanical specification







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⅔ GL Type installation steps



DIN Rail Type Installation



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.)

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Installation Manual

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