

Наличие и актуальные цены на

XTR-240-48

https://www.mean-well.ru/store/XTR-240-48/









































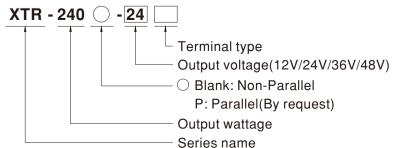
# Features

- Three-Phase 320 ~ 600Vac wide range input, 600 ~ 700Vac surge input for 1 sec. occasionally (Dual phase operation possible)
- Global certificates in multi-fields(ITE 62368-1,Industrial 61558-1/-2-16,61010) & Marine DNV,SEMI47,C1D2 HazLoc approved • Electro-mechanical apparatus
- · 48mm Ultra slim width
- High efficiency up to 93.5% and no load power dissipation<2.5W</li>
- 150% Peak Power capability
- Built-in constant current limiting circuit
- Current sharing up to 960W(3+1) for parallel use (By request)
- Protections: Short circuit / Overload / Over voltage / Over temperature
- · Fanless design, cooling by free air convection
- Over voltage category III (OVC III)
- -40~+85°C wide range operation temperature (>+60°C derating)
- Operating altitude up to 5000 meters
- · Built-in DC OK relay contact
- Ultra low inrush current < 10A</li>
- Built-in ORing FET (By request)
- 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-240 series is a 240W AC/DC 3Ø 320~600Vac input ultra slim industrial high-reliability DIN rail power. Key features of this series include a narrow 48 mm casing, optimizing system installation space, it boasts a maximum efficiency of 93.5% and a low standby power consumption <2.5W for energy savings and carbon reduction. It provides constant current with up to 150% 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 960W(By request);ultra-low inrush current of <10A; built-in DC OK and ORing FET(optional) ; 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-240 series is a compact, high-performance, and highly reliable DIN rail power supply.

# Model Encoding



Termi	Note		
Blank	Screw Terminal		In stock
LA	Lever-Actuated		In stock
PI	Push In		In stock

### File Name:XTR-240-SPEC 2025-06-06



Applications

Industrial control system

· Semiconductor fabrication equipment

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

Factory automation

**GTIN CODE** 



		XTR-240○-12□	XTR-240○-24□	XTR-240○-36□	XTR-240○-48□	
SPECIFI	ICATION	□=Blank, P □=Blank, LA, Pl				
OUTPUT						
DC VOLTAGE		12V	24V	36V	48V	
RATED CURR	RENT	15A	10A	6.66A	5A	
CURRENT RA	ANGE	0 ~ 15A	0 ~ 10A	0 ~ 6.66A	0 ~ 5A	
RATED POWE	ER	180W	240W	239.8W	240W	
PEAK	CURRENT(5 sec.)	22.5A	15A	10A	7.5A	
PEAK	POWER(5 sec.)	270W	360W	360W	360W	
RIPPLE & NO	ISE (max.) Note.2	100mVp-p	100mVp-p	120mVp-p	120mVp-p	
VOLTAGE AD	J. RANGE	12 ~ 15V	24 ~ 29V	36 ~ 42V	48 ~ 55V	
VOLTAGE TO	LERANCE Note.3	±1.0%	±1.0%	±1.0%	±1.0%	
LINE REGULA	ATION	±0.5%	±0.5%	±0.5%	±0.5%	
LOAD REGUL	LATION	±1.0%	±1.0%	±1.0%	±1.0%	
SETUP, RISE	TIME	2000ms, 60ms/400Vac 15	500ms, 60ms/500Vac at full load			
HOLD UP TIME (Typ.)		20ms / 400Vac 40ms / 500Vac at full load				
INPUT						
VOLTAGE RA	ANGE Note.4	Three-Phase 320 ~ 600Vac 450 ~ 800Vdc (Dual phase operation possible in connecting L1,L3,FG or L2,L3,FG)				
NO LOAD POWER CONSUMPTION (Typ.)		2.5W/400Vac	2.5W/400Vac	2.5W/400Vac	2.5W/400Vac	
FREQUENCY RANGE		47 ~ 63Hz				
POWER FACTOR (Typ.)		PF≥0.53/400Vac PF≥0.52/500Vac at full load				
EFFICIENCY (Typ.)		88.7%	92.5%	92.5%	93.5%	
AC CURRENT (Typ.)		0.69A/400Vac 0.6A/500Vac				
INRUSH CURRENT (Typ.)		COLD START 10A/400Vac				
LEAKAGE CURRENT		<2mA / 530Vac				
PROTECTION	<b>I</b>					
OVERLOAD		105%~150% rated output power	r for more than 5 sec then constant	current limiting without shutdown	at rate current when Vo=30%~100%	
OVER VOLTA		15 ~ 18V	30 ~ 36V	45 ~ 54V	56 ~ 65V	
OVER VOLTA	IGE	Hiccup mode , recovers automatically after fault condition is removed				
OVER TEMPE	ERATURE	Shut down o/p voltage or hiccup mode, recovers automatically after temperature goes down				
FUNCTION						
PARALLEL(Optional)		Up to 960W (3+1), please refer to Function Manual for more details				
DC OK RELAY CONTACT		Relay Contact Ratings (max.):30Vdc/1A, 30Vac/0.5A resistive load				
ENVIRONMENT						
WORKING TE	GTEMP. Note.5 -40 ~ +85°C (Refer to "Derating Curve")					
WORKING HUMIDITY		20 ~ 95% RH non-condensing				
STORAGE TE	EMP., HUMIDITY	-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				



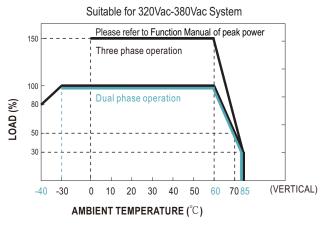
	XTR-240○-12□	XTR-240○-24□	XTR-240○-36□	XTR-240○-48□		
SPECIFICATION	○=Blank, P	○=Blank, P □=Blank, LA, PI				
SAFETY & EMC Note.	7					
SAFETY STANDARDS	BS EN/EN61558-1/-2-16,BS BSMI CNS15598-1;CCC GB	UL121201/CSA C22.2 NO.213.17 Class I, Div. 2 Group A, B, C, D Hazardous Locations T4; UL61010; TUV BS 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 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 61558-1/-2-16 (OVC III, altitude up to 5000m )  IEC/EN 62368-1 (OVC II, altitude up to 5000m)						
SAFETY EXTRA-LOW VOLTAGE(SELV)	IEC/EN/UL 61010-2-201 (SEL	V 12V/24V) V 12V/24V) V/ ES1 12V/24V )				
WITHSTAND VOLTAGE	I/P-O/P:4.87KVac I/P-FG:	2.5KVac O/P-FG:0.5KVac 0	D/P-DC OK:0.5KVac			
ISOLATION RESISTANCE	I/P-O/P, I/P-FG, O/P-FG:>10	0M Ohms / 500VDC / 25°C / 70%	%RH			
	Parameter	Standard	Standard T			
	Conducted	BS EN/EN55032(CIS	BS EN/EN55032(CISPR32) / BS EN/EN61204-3 / CNS15936 Class			
EMC EMISSION	Radiated	BS EN/EN55032(CIS	BS EN/EN55032(CISPR32) / BS EN/EN61204-3 / CNS15936			
	Harmonic Current	BS EN/EN61000-3-2	BS EN/EN61000-3-2			
	Voltage Flicker	BS EN/EN61000-3-3	BS EN/EN61000-3-3			
	BS EN/EN55035 , BS EN/EN61204-3 , BS EN/EN61000-6-2:2005 , BS EN/EN IEC61000-6-2:2019					
	Parameter	Standard	Test Level / No	te		
	ESD	BS EN/EN61000-4-2	Level 4, 15KV a	ir; 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 ; c	riteria A		
EMC IMMUNITY	Surge	BS EN/EN61000-4-5	Level 4, 2KV / L	ine-Line, Level 4, 4KV/ Line-Eart		
	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 Interruptio	BS EN/EN61000-4-1	1   ' '	periods, 30% dip 25 interruptions 250 periods		
OTHERS						
MTBF	1432.3K hrs min. Telcordia SR-332(Bellcore); 191.5K hrs min. MIL-HDBK-217F (25°C)					
DIMENSION	48*125.2*125mm (W*H*D)					
PACKING	0.8Kg; 12pcs/12.5Kg/0.89C	UFT				
NOTE						

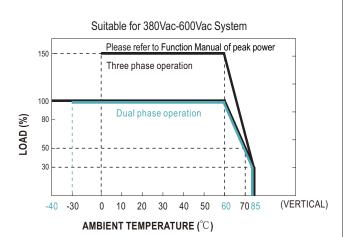
#### NOTE

- 1. All parameters NOT specially mentioned are measured at 400Vac 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  $\mu$  F & 47  $\mu$  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

#### ■ Block Diagram PWM fosc: 60KHz DCOK ORING FET (By request) → +Vo RECTIFIERS **EMIFILTER** POWER **PASSIVE** Input ○ SWITCHING PFC - -Vo RECTIFIERS FILTER O.C.P. O.L.P. DETECTION FG C PWM CIRCUIT CONTROL O.V.P. O.T.P. PARALLEL (By request) -0 Р-

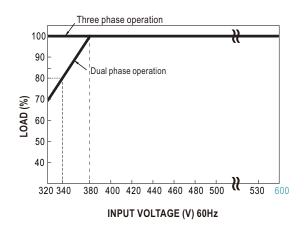
# ■ Derating Curve





Note : Dual phase operating temperature is between -30  $^{\circ}\text{C} \sim +85 ^{\circ}\text{C}$  .

### ■ Output derating VS input voltage



Note : When ambient temperature is between -30  $^{\circ}$ C  $\sim$  -10  $^{\circ}$ C and unit is operated in dual-phase input mode :

- At dual-phase input 320~380Vac, power supply can be loaded but might experience hiccup at cold start for 5~10 seconds.

### ■ Peak Power

$$P_{av} = \frac{P_{pk} \ X \ t + P_{npk} \ X \ (T-t)}{T} \leqslant \ P_{rated}$$

Duty = 
$$\frac{t}{T}$$
 x 100%  $\leq$  35%

t ≤ 5 sec

Pav: Average output power (W)

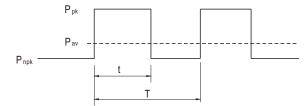
P<sub>pk</sub>: Peak output power (W)

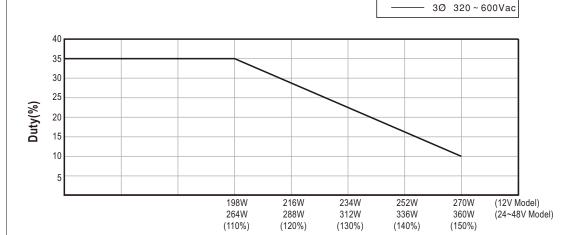
P<sub>npk</sub>: Non-peak output power(W)

 $\mathsf{P}_{\mathsf{rated}}: \mathsf{Rated} \ \mathsf{output} \ \mathsf{power}(\mathsf{W})$ 

t : Peak power width (sec)

T: Period(sec)





# Peak output power (W)

### For example (24V model):

$$P_{av} = P_{rated} = 240W$$

$$T \ge \frac{5 \text{ sec}}{10\%} \ge 50 \text{sec}$$

$$\mathsf{P}_{\mathsf{npk}} \leqslant \, \frac{\mathsf{T}\,\mathsf{P}_{\mathsf{av}} \, - \, t\,\mathsf{P}_{\mathsf{pk}}}{\mathsf{T-}\mathsf{t}}$$

$$P_{npk} \le 226W$$

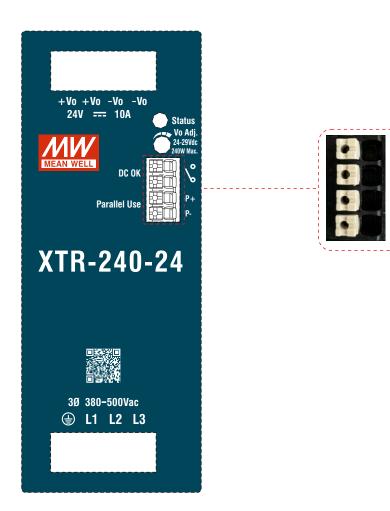


DC OK

(By request)

### **■** Function Manual

Pin No.	Function	Description
1,2	DC OK	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+ (By request)	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- (By request)	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.

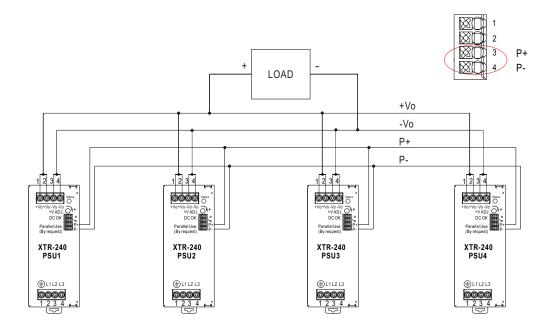




### 1.Parallel Use (By request)

XTR-240 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:

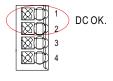
- (1) Parallel operation is available by connecting the units shown as below (P+,P- are connected mutually in parallel).
- (2) Difference of output voltages among parallel units should be less than 0.2V.
- (3) The total output current must not exceed the value determined by the following equation (Output 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

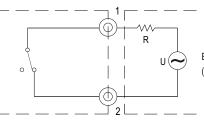


※ Please contact MEAN WELL for more details.

### 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.	



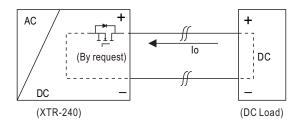


External voltage source (U) and resistor (R) (The max. Sink is 30Vdc/1A,30Vac/0.5A)

Internal circuit of DC\_OK, via relay contact

## 3. Protection Against Inverse Reverse From The Load (By request)

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

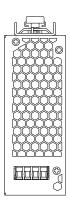


PSU'S ORing FET turn OFF voltage			
MODEL	Max. allowable reverse voltage		
XTR-240-12	<16V		
XTR-240-24	<35V		
XTR-240-36	<50V		
XTR-240-48	<63V		

### ■ Mechanical Specification

(Unit:mm , Tolerance ±1mm)

Case No. 303

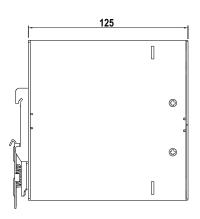


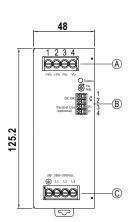
### A: Terminal Pin No. Assignment

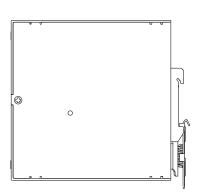
Pin No.	Assignment
1,2	DC Output +Vo
3,4	DC Output -Vo

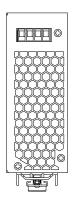
### B: Control Pin No. Assignment

Pin No.	Assignment
1,2	DC OK Relay Contact
3	P+(Current sharing,By request)
4	P-(Current sharing,By request)









## ©: Terminal Pin No. Assignment

Pin No.	Assignment
1	FG ⊕
2	AC/L1
3	AC/L2
4	AC/L3

### ■ Recommend Wiring

### Screw Terminal Torque

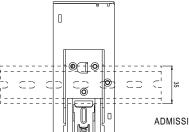
		AC Input T.B	DC Output T.B	Signal connector
Solid Wire		6mm² max.	6mm² max.	1.5mm² max.
A.W.G	XTR-240-12	18~10 AWG	12~10 AWG	24~16 AWG
	XTR-240-24/36/48		16~10 AWG	
Wire Stripping Length		10~11mm	10~11mm	8~9mm
Screw Terminal Torque		5 Lb-In	5 Lb-In	1



### X Lever-Actuated and Push In

		AC Input T.B	DC Output T.B	Signal connector
Solid Wire		6mm² max.	6mm² max.	1.5mm² max.
A.W.G	XTR-240-12	18~10 AWG	12~10 AWG	24~16 AWG
	XTR-240-24/36/48		16~10 AWG	
Wire Stripping Length		10~11mm	10~11mm	8~9mm
Screw Terminal Torque			Not applicable	

## ■ 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