



## Installation Manual

### ● **Type : XTR DIN rail power supply ( Series : XTR-240, 480, 960 )**

Model	INPUT	OUTPUT	Vo Adj.rang	Rated Power
XTR-240-12	Three-Phase 320 ~ 600Vac/450 ~ 800Vdc (Dual phase operation possible in connecting L1,L3,FG or L2,L3,FG )	12V 5A	12-15V	180W
XTR-240-24	Three-Phase 320 ~ 600Vac/450 ~ 800Vdc (Dual phase operation possible in connecting L1,L3,FG or L2,L3,FG )	24V 10A	24-29V	240W
XTR-240-36	Three-Phase 320 ~ 600Vac/450 ~ 800Vdc (Dual phase operation possible in connecting L1,L3,FG or L2,L3,FG )	36V 6.66A	36-42V	239.8W
XTR-240-48	Three-Phase 320 ~ 600Vac/450 ~ 800Vdc (Dual phase operation possible in connecting L1,L3,FG or L2,L3,FG )	48V 5A	48-55V	240W
XTR-480-12	Three-Phase 320 ~ 600Vac/450 ~ 800Vdc (Dual phase operation possible)	12V 30A	12-15V	360W
XTR-480-24	Three-Phase 320 ~ 600Vac/450 ~ 800Vdc (Dual phase operation possible)	24V 20A	24-29V	480W
XTR-480-36	Three-Phase 320 ~ 600Vac/450 ~ 800Vdc (Dual phase operation possible)	36V 13.3A	36-42V	478.8W
XTR-480-48	Three-Phase 320 ~ 600Vac/450 ~ 800Vdc (Dual phase operation possible)	48V 10A	48-55V	480W
XTR-960-24	Three-Phase 320 ~ 600Vac/450 ~ 800Vdc (Dual phase operation possible)	24V 40A	24-29V	960W
XTR-960-36	Three-Phase 320 ~ 600Vac/450 ~ 800Vdc (Dual phase operation possible)	36V 26.66A	36-42V	959.76W
XTR-960-48	Three-Phase 320 ~ 600Vac/450 ~ 800Vdc (Dual phase operation possible)	48V 20A	48-55V	960W

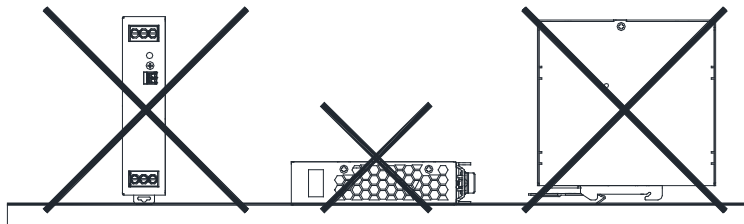
### ● **Introduction**

The XTR series is a compact, high-performance, and highly reliable DIN rail power supply. Like other Mingwei DIN series products, they can be installed on TS35 standard DIN rails. It has the characteristics of low power consumption, high efficiency, and ultra wide working environment. Compliant with OVCIII standards, with built-in DCOK and ORingFET (optional), internal PCB coating provides basic moisture and dust protection, and multiple terminal blocks to choose from. The XTR series has comprehensive protection features, complete safety certification, and a 5-year warranty.

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- (1) Always allow good ventilation clearances, 5mm left and right, 40mm above and 20mm below, around the unit in use to prevent it from overheating. Also a 10-15 cm clearance must be kept when the adjacent device is a heat source.
- (2) The appropriate mounting orientation for the unit is vertical, the input terminals at the bottom and output on the top. Mounting orientations other than that, such as upside down, horizontal, or table-top mounting, is not allowed.



- (3) Using only copper wire, the recommended wires are as follows, taking UL1015 as an example:

AWG	18	16	14	12	10
Rated Current of Equipment (Amp)	7A	10A	15A	20A	37A
Cross-section of Lead(mm <sup>2</sup> )	0.8	1.3	2.1	3.3	5.5
Note: Current each wire carries should be de-rated to 80% of the current suggested above when using 5 or more wires connected to the unit.					

Make sure that all strands of each stranded wire enter the terminal connection and the screw terminals are securely fixed to prevent poor contact. If the power supply possesses multi-output terminals, please make sure each contact is connected to wires to prevent too much current stress on a single contact.

- (4) Use wires that can withstand temperatures of at least 80°C, such as UL1007/1015.
- (5) Recommended wire strapping length is 5mm (0.197").
- (6) Recommended screwdriver is 3mm, slotted type.
- (7) Input/output terminal type options.

Terminal Type Options		Usage
Blank	Screw Terminal	Insert the wire and tighten the screw
LA	Lever Actuated	Open the lever, insert the wire, and then press down on the lever
PI	Push In	Insert the wire

For more information about the terminal type options, please refer to the specs for details.

- (8) DC OK terminal type.

Contact Ratings (max.)	30V/1A resistive load
Solid Wire	1.5mm <sup>2</sup> max.
A.W.G	24~16AWG
Usage	Insert the wire

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(9) The recommended torque setting for terminals is shown as below(only for the blank type).

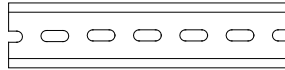
Model	I/P	O/P
XTR-240	5.8 kgf-cm (5Lb-in)	5.8 kgf-cm (5 Lb-in)
XTR-480	5.8 kgf-cm (5 Lb-in)	5.8 kgf-cm (5 Lb-in)
XTR-960	5.8 kgf-cm (5 Lb-in)	5.8 kgf-cm (5Lb-in)

(10) Mounting Instruction :

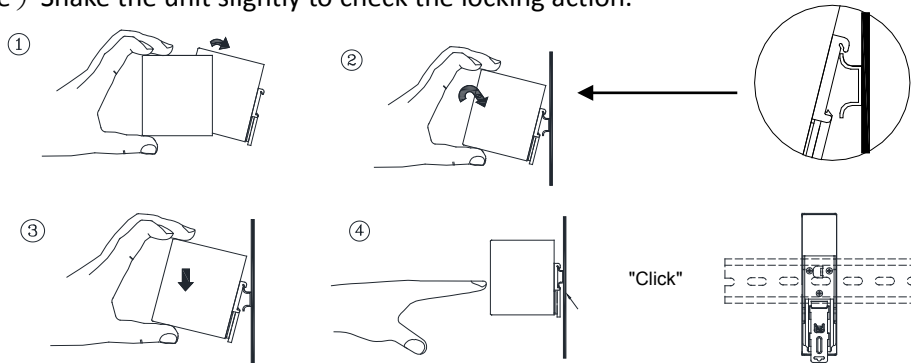
Mount as shown in figure only, with input terminals down, or else sufficient cooling will not be possible.

Admissible DIN rail : TS35/7.5 or TS35/15

For rail fastening :



- Tilt the unit slightly rearwards.
- Fit the unit over top hat rail.
- Slide it downward until it hits the stop.
- Press against the bottom for locking.
- Shake the unit slightly to check the locking action.



(11) Ventilation method: natural cooling of the air


(12) For other information about the products, please refer to [www.meanwell.com](http://www.meanwell.com) for details.

## Warning / Caution !!

- Risk of electrical shock and energy hazard. All failure should be examined by a qualified technician. Please do not remove the case of the power supply by yourself!
- Risk of electric arcs and electric shock (danger to life). Connecting both the primary and the secondary sides together is not allowed.
- Risk of burn hazard. Do not touch the unit in operation and shortly after disconnection!
- Risk of fire and short circuit. The openings should be protected from foreign objects or dripping liquids.
- Only install the unit in a pollution degree 2 environment (Note.1).
- Please do not install the unit in places with high moisture or near the water.
- The XTR series can operate at full load at a maximum ambient temperature of 60 °C. It can also operate at 40% load output at a maximum ambient temperature of 85 °C (except for the XTR-240 series, which operates at 30% load output at a maximum ambient temperature of 85 °C). Do not install this device in areas with high ambient temperatures or near fire sources.
- The PE (⊕) must be connected to PE (Protective Earth).
- Output current and output wattage must not exceed the rated value on its specification.



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- ( 10 ) Disconnect system from supply voltage:  
Before commencing any installation, maintenance or modification work: Disconnect your system from supply voltage. Make sure that inadvertent connection in circuit will be impossible!
- ( 11 ) For continued protection against risk of fire, replace only with same type and rating of fuse.  
Pour ne pas compromettre la protection contre les risqué d'incendie, remplacer par un fusible de même type et de memes caractéristiques nominales.
- ( 12 )  Use copper connectors and wire only (Utilisation de connecteurs et de fils en cuivre uniquement)
- ( 13 ) The instruction manual should state that if the device is used in a manner not specified by the manufacturer, the protection provided by the device may be compromised.

Note.1: Pollution Degree 2 applies where there is only non-conductive pollution that might temporarily become conductive due to occasional condensation. Generally refer to dry, well-ventilated locations, such as control cabinets.

Note.2: Working humidity: 20-95% RH non-condensing

Over Voltage Category and Operating Altitude:

OVCIII, 2000m for 62368,61558,61010, OVCII, 5000m for 62368, 61010

Note 3: The safety of any system integrated with this device is the responsibility of the system assembler

## Manufacturer :

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## **Declaration of China RoHS Conformity**

In order to reduce the impacts on the environment and take the more responsibility for protecting the earth, MEAN WELL is confirming and announcing the conformity to China RoHS, an Administrative Measures for the Restriction of the Use of Hazardous Substances in Electrical and Electronic Products.

### **Environment Friendly Use Period Label**

	Observing SJT 11364-2014, Marking for the Restricted Use of Hazardous Substances in Electronic and Electrical Products
	Observing SJ/Z 11388-2009, General Guidelines of Environment-friendly Use Period of Electronic Information Products Appendix B, adopting table look-up to verify the Environment Friendly Use Period

### **Names and Contents of Hazardous Substances Lists**

Part Name	Hazardous Substances					
	Lead (Pb)	Mercury (Hg)	Cadmium (Cd)	Hexavalent chromium (Cr <sup>6+</sup> )	Polybrominated biphenyls (PBB)	Polybrominated diphenyl ethers (PBDE)
PCB and its components	X	O	X	O	O	O
Metal structure parts	X	O	O	O	O	O
Plastic structure parts	O	O	O	O	O	O
Accessories	O	O	O	O	O	O
Cables	X	O	O	O	O	O
O: The concentration of the hazardous substances within the homogeneous material of that product is less than the concentration limits set by GB/T 26572-2011. X: The concentration of the hazardous substances within the homogeneous material of that product is over the concentration limits set by GB/T 26572-2011; however, it follows the standard advised by 2011/65/EU.						

ISO-9001 CERTIFIED

*Your Reliable Power Partner*



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## Declaration of China VOC Conformity

In order to reduce the impacts on the environment and take the more responsibility for protecting the earth, MEAN WELL is confirming and announcing the conformity to China's Standardization Administration Releases VOC Standards

Standard No.	Name of the Standard
GB 30981-2020	Limit of harmful substances of industrial protective coatings
GB 33372-2020	Limits for volatile organic compounds content in adhesive
GB 38507-2020	Limits for volatile organic compounds (VOCs) In printing ink
GB 38508-2020	Limits for volatile organic compounds content in cleaning agents

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## Declaration of Five PBT TSCA Conformity

In order to reduce the impacts on the environment and take the more responsibility for protecting the earth, MEAN WELL hereby confirms that MEAN WELL product series comply with Use and Risk Management for Five PBT Chemicals under TSCA section 6(h)

CAS No.	Substance Name
1163-19-5	Decabromodiphenyl ether (DecaBDE)
68937-41-7	Phenol, isopropylated, phosphate (3:1) PIP (3:1)
732-26-3	2,4,6-Tris (tert-butyl) phenol (2,4,6-TTBP)
133-49-3	Pentachlorothiophenol (PCTP)
87-68-3	Hexachlorobutadiene (HCBD)

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