

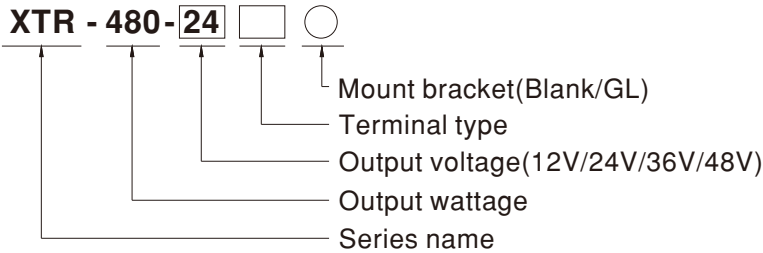
■ Features

- Three-Phase 320 ~ 600Vac wide range input (Dual phase operation possible)
- Global certificates in multi-fields(ITE 62368-1,Industrial 61558-1/-2-16,61010) & Marine DNV,SEMI47,C1D2 HazLoc approved
- 63mm Ultra slim width
- High efficiency up to 95.5% and no load power dissipation<3.0W by R.C.
- 200% Peak Power capability
- Built-in constant current limiting circuit
- Current sharing up to 1920W(3+1) for parallel use
- 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 Remote ON/OFF Control and DC OK relay contact
- Ultra low inrush current < 10A
- 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-480 series is a 480W AC/DC 3Ø 320~600Vac input ultra slim industrial high-reliability DIN rail power. Key features of this series include a narrow 63 mm casing, optimizing system installation space, it boasts a maximum efficiency of 95.5% and a low standby power consumption <3.0W 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 1920W; 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-480 series is a compact, high-performance, and highly reliable DIN rail power supply.

■ Model Encoding



■ Applications

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

■ GTIN CODE

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

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



# 480W AC/DC 3Ø Input Ultra Slim Industrial DIN Rail Power **XTR-480** series

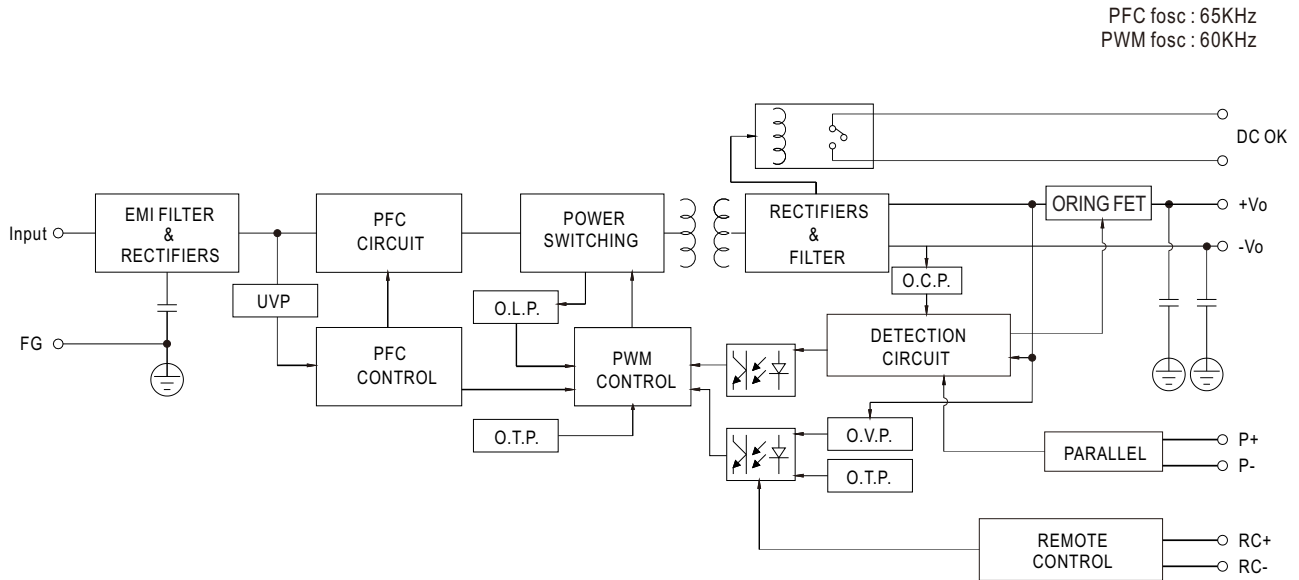
| SPECIFICATION                    |                  | XTR-480-12□○                                                                                                                      | XTR-480-24□○ | XTR-480-36□○ | XTR-480-48□○ |
|----------------------------------|------------------|-----------------------------------------------------------------------------------------------------------------------------------|--------------|--------------|--------------|
|                                  |                  | □=Blank, LA, PI    ○=Blank, GL                                                                                                    |              |              |              |
| OUTPUT                           |                  |                                                                                                                                   |              |              |              |
| DC VOLTAGE                       |                  | 12V                                                                                                                               | 24V          | 36V          | 48V          |
| RATED CURRENT                    |                  | 30A                                                                                                                               | 20A          | 13.3A        | 10A          |
| CURRENT RANGE                    |                  | 0 ~ 30A                                                                                                                           | 0 ~ 20A      | 0 ~ 13.3A    | 0 ~ 10A      |
| RATED POWER                      |                  | 360W                                                                                                                              | 480W         | 478.8W       | 480W         |
| PEAK                             | CURRENT(5 sec.)  | 60A                                                                                                                               | 40A          | 26.7A        | 20A          |
|                                  | POWER(5 sec.)    | 720W                                                                                                                              | 960W         | 961W         | 960W         |
| RIPPLE & NOISE (max.)<br>Note.2  |                  | 120mVp-p                                                                                                                          | 120mVp-p     | 150mVp-p     | 150mVp-p     |
| VOLTAGE ADJ. RANGE               |                  | 12 ~ 15V                                                                                                                          | 24 ~ 29V     | 36 ~ 42V     | 48 ~ 55V     |
| VOLTAGE TOLERANCE<br>Note.3      |                  | ±2.0%                                                                                                                             | ±1.0%        | ±1.0%        | ±1.0%        |
| LINE REGULATION                  |                  | ±0.5%                                                                                                                             | ±0.5%        | ±0.5%        | ±0.5%        |
| LOAD REGULATION                  |                  | ±1.0%                                                                                                                             | ±1.0%        | ±1.0%        | ±1.0%        |
| SETUP, RISE TIME                 |                  | 800ms, 60ms/400Vac    600ms, 60ms/500Vac at full load                                                                             |              |              |              |
| HOLD UP TIME (Typ.)              |                  | 20ms / 400Vac    20ms / 500Vac at full load                                                                                       |              |              |              |
| INPUT                            |                  |                                                                                                                                   |              |              |              |
| VOLTAGE RANGE<br>Note.4          |                  | Three-Phase 320 ~ 600Vac (Dual phase operation possible) 450 ~ 800Vdc                                                             |              |              |              |
| NO LOAD POWER CONSUMPTION (Typ.) | Remote Power OFF | 3.0W/400Vac                                                                                                                       | 3.0W/400Vac  | 3.0W/400Vac  | 3.0W/400Vac  |
|                                  | Remote Power ON  | 5.0W/400Vac                                                                                                                       | 5.0W/400Vac  | 5.0W/400Vac  | 5.0W/400Vac  |
| FREQUENCY RANGE                  |                  | 47 ~ 63Hz                                                                                                                         |              |              |              |
| POWER FACTOR (Typ.)              |                  | PF≥0.9/400Vac    PF≥0.88/500Vac at full load                                                                                      |              |              |              |
| EFFICIENCY (Typ.)                |                  | 93%                                                                                                                               | 94%          | 94.5%        | 95.5%        |
| AC CURRENT (Typ.)                |                  | 0.85A/400Vac    0.7A/500Vac                                                                                                       |              |              |              |
| INRUSH CURRENT (Typ.)            |                  | COLD START 10A/500Vac                                                                                                             |              |              |              |
| LEAKAGE CURRENT                  |                  | <3.5mA / 530Vac                                                                                                                   |              |              |              |
| PROTECTION                       |                  |                                                                                                                                   |              |              |              |
| OVERLOAD                         |                  | 105%~200% rated output power for more than 5 sec then constant current limiting without shutdown at rate current when Vo=30%~100% |              |              |              |
| OVER VOLTAGE                     |                  | 15 ~ 18V                                                                                                                          | 30 ~ 35V     | 43 ~ 50V     | 56 ~ 65V     |
|                                  |                  | Protection type : Shut down o/p voltage, re-power on to recover                                                                   |              |              |              |
| OVER TEMPERATURE                 |                  | Shut down o/p voltage or hiccup mode, recovers automatically after temperature goes down                                          |              |              |              |
| FUNCTION                         |                  |                                                                                                                                   |              |              |              |
| PARALLEL                         |                  | Up to 1920W (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                                                                  |              |              |              |
| REMOTE CONTROL                   |                  | Power ON : RC + ~ RC- open or keep 2~5Vdc                                                                                         |              |              |              |
|                                  |                  | Power OFF: RC + ~ RC- short or keep<0.5Vdc                                                                                        |              |              |              |
| ENVIRONMENT                      |                  |                                                                                                                                   |              |              |              |
| WORKING TEMP.<br>Note.5          |                  | -40 ~ +85℃ (Refer to "Derating Curve")                                                                                            |              |              |              |
| WORKING HUMIDITY                 |                  | 20 ~ 95% RH non-condensing                                                                                                        |              |              |              |
| STORAGE TEMP., HUMIDITY          |                  | -40 ~ +85℃, 10 ~ 95% RH non-condensing                                                                                            |              |              |              |
| TEMP. COEFFICIENT                |                  | ±0.03%/℃ (0 ~ 60℃ )                                                                                                               |              |              |              |
| VIBRATION                        |                  | Component:10 ~ 500Hz, 2G 10min./1cycle, 60min. each along X, Y, Z axes; Mounting: Compliance to IEC60068-2-6                      |              |              |              |



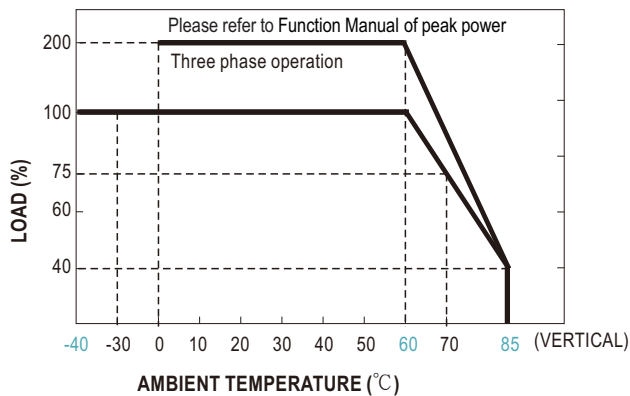
# 480W AC/DC 3Ø Input Ultra Slim Industrial DIN Rail Power **XTR-480** series

| SPECIFICATION                                                                                                                                                                                                                                                                                                                                                                                                                       |  | XTR-480-12□○                                                                                                                                                                                                                                                                                                                                                                                                      | XTR-480-24□○                                        | XTR-480-36□○ | XTR-480-48□○                                                            |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------|--------------|-------------------------------------------------------------------------|
|                                                                                                                                                                                                                                                                                                                                                                                                                                     |  | □=Blank, LA, PI    ○=Blank, GL                                                                                                                                                                                                                                                                                                                                                                                    |                                                     |              |                                                                         |
| 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)<br>KC KC62368-1 and BIS IS13252 (Part 1):2010 certified, no stock ,contact sale for inquiries |                                                     |              |                                                                         |
| OVER VOLTAGE CATEGORY                                                                                                                                                                                                                                                                                                                                                                                                               |  | Note.6<br>IEC/EN 61558-1/-2-16 (OVC III, altitude up to 2000m )<br>IEC/EN/UL 61010 (OVC II, altitude up to 5000m )<br>IEC/EN 62368-1 (OVC II, altitude up to 5000m )                                                                                                                                                                                                                                              |                                                     |              |                                                                         |
| SAFETY EXTRA-LOW VOLTAGE(SELV)                                                                                                                                                                                                                                                                                                                                                                                                      |  | IEC/EN 61558-2-16 (SELV )<br>IEC/EN/UL 61010-2-201 (SELV )<br>IEC/EN 62368-1 (SELV/ ES1 )                                                                                                                                                                                                                                                                                                                         |                                                     |              |                                                                         |
| WITHSTAND VOLTAGE                                                                                                                                                                                                                                                                                                                                                                                                                   |  | I/P-O/P:4.87KVac I/P-FG:2.5KVac O/P-FG:0.5KVac O/P-DC OK:0.5KVac                                                                                                                                                                                                                                                                                                                                                  |                                                     |              |                                                                         |
| ISOLATION RESISTANCE                                                                                                                                                                                                                                                                                                                                                                                                                |  | I/P-O/P, I/P-FG, O/P-FG:>100M Ohms / 500VDC / 25℃ / 70% RH                                                                                                                                                                                                                                                                                                                                                        |                                                     |              |                                                                         |
| EMC EMISSION                                                                                                                                                                                                                                                                                                                                                                                                                        |  | Parameter                                                                                                                                                                                                                                                                                                                                                                                                         | Standard                                            |              | Test Level / Note                                                       |
|                                                                                                                                                                                                                                                                                                                                                                                                                                     |  | Conducted                                                                                                                                                                                                                                                                                                                                                                                                         | BS EN/EN55032(CISPR32) / BS EN/EN61204-3 / CNS15936 |              | Class B                                                                 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                     |  | 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                                   |              | -----                                                                   |
| EMC IMMUNITY                                                                                                                                                                                                                                                                                                                                                                                                                        |  | BS EN/EN55035 , BS EN/EN61204-3 , BS EN/EN61000-6-2:2005 , BS EN/EN 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                                               |
|                                                                                                                                                                                                                                                                                                                                                                                                                                     |  | Surge                                                                                                                                                                                                                                                                                                                                                                                                             | BS EN/EN61000-4-5                                   |              | Level 4, 2KV / Line-Line, Level 4, 4KV/ Line-Earth                      |
|                                                                                                                                                                                                                                                                                                                                                                                                                                     |  | 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                                                                                                                                                                                                                                                                                                                                                                                                                                |  | 1267.7K hrs min. Telcordia SR-332(Bellcore) ; 167.4K hrs min. MIL-HDBK-217F (25℃)                                                                                                                                                                                                                                                                                                                                 |                                                     |              |                                                                         |
| DIMENSION                                                                                                                                                                                                                                                                                                                                                                                                                           |  | 63*125.2*125mm (W*H*D)                                                                                                                                                                                                                                                                                                                                                                                            |                                                     |              |                                                                         |
| PACKING                                                                                                                                                                                                                                                                                                                                                                                                                             |  | 1.3Kg ; 10pcs/14Kg/1.1CUFT                                                                                                                                                                                                                                                                                                                                                                                        |                                                     |              |                                                                         |
| NOTE                                                                                                                                                                                                                                                                                                                                                                                                                                |  |                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                     |              |                                                                         |
| 1. All parameters NOT specially mentioned are measured at 400Vac input, rated load and 25℃ 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. 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.<br>In case the adjacent device is a heat source, 15mm clearance is recommended.                                                                                                                                                                                               |  |                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                     |              |                                                                         |
| 6. The ambient temperature derating of 3.5℃/1000m with fanless models and of 5℃/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.”<br>(as available on <a href="https://www.meanwell.com/Upload/PDF/EMI_statement_en.pdf">https://www.meanwell.com/Upload/PDF/EMI_statement_en.pdf</a> ) |  |                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                     |              |                                                                         |
| ※ Product Liability Disclaimer : For detailed information, please refer to <a href="https://www.meanwell.com/serviceDisclaimer.aspx">https://www.meanwell.com/serviceDisclaimer.aspx</a>                                                                                                                                                                                                                                            |  |                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                     |              |                                                                         |

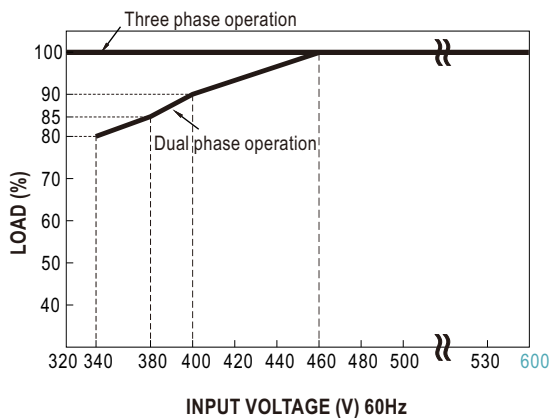
## ■ Block Diagram



## ■ Derating Curve



## ■ Output derating VS input voltage

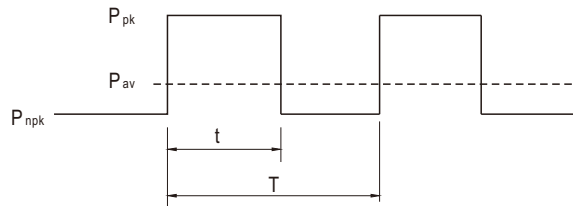


## ■ Peak Power

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

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

$$t \leq 5 \text{ sec}$$



$P_{av}$  : Average output power (W)

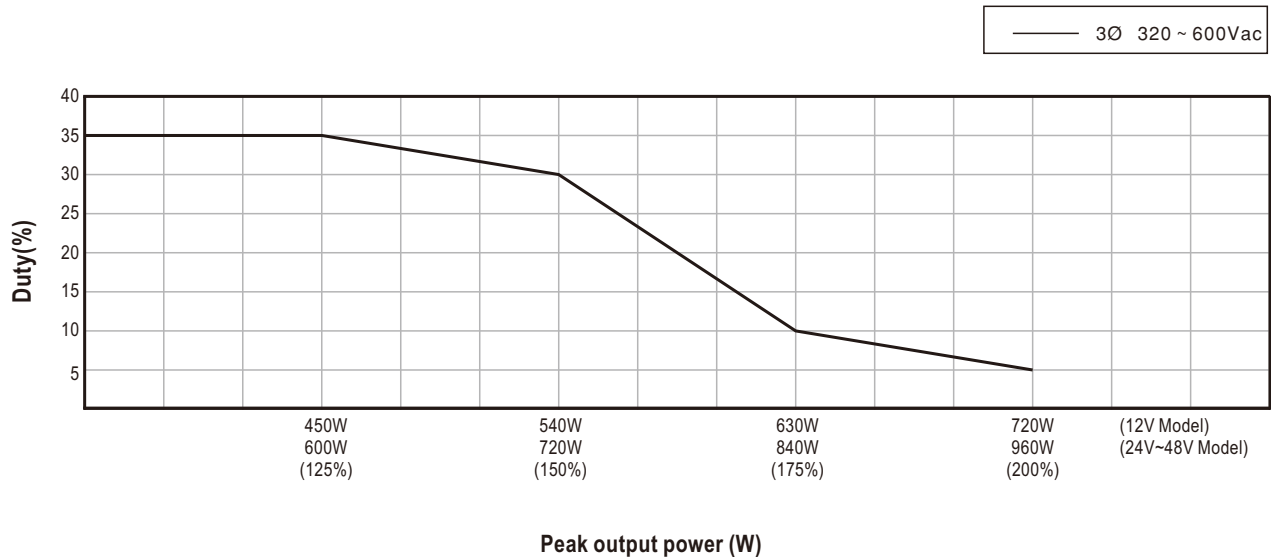
$P_{pk}$  : Peak output power (W)

$P_{npk}$  : Non-peak output power (W)

$P_{rated}$  : Rated output power (W)

$t$  : Peak power width (sec)

$T$  : Period (sec)



**For example (24V model) :**

$V_{in} = 400V$      $\text{Duty}_{max} = 5\%$

$P_{av} = P_{rated} = 480W$

$P_{pk} = 960W$

$t \leq 5 \text{ sec}$

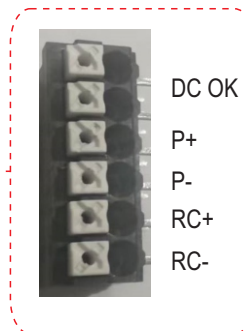
$$T \geq \frac{5 \text{ sec}}{5\%} \geq 100 \text{ sec}$$

$$P_{npk} \leq \frac{T P_{av} - t P_{pk}}{T-t}$$

$$P_{npk} \leq 454.7W$$

## ■ Function Manual

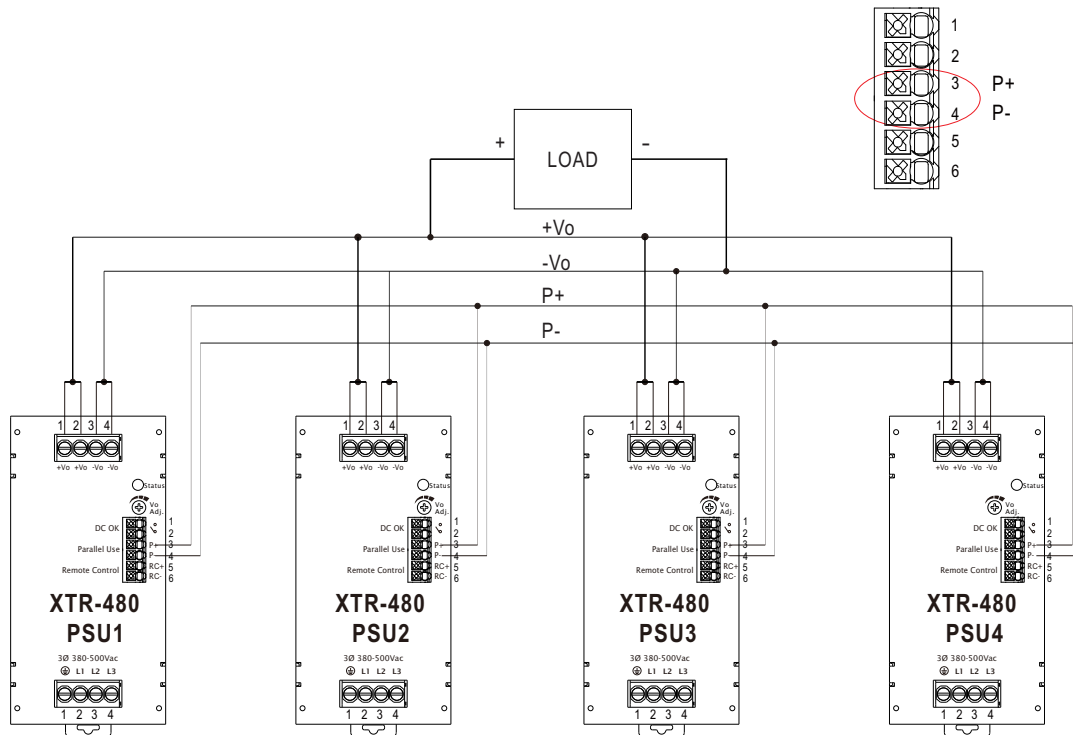
| Pin No. | Function               | Description                                                                                                                                                                                              |
|---------|------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1,2     | DC OK<br>Relay Contact | Contact close : PSU turns ON/DC_OK ;<br>Contact open : PSU turns OFF/DC_fail;<br>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.<br>P- Signal is internally connected to -Vo. |
| 5       | RC+                    | Turns the output ON and OFF by electrical singal<br>Remote power ON : Open or keep 2~5Vdc                                                                                                                |
| 6       | RC-                    | Remote power OFF: Short or keep<0.5Vdc                                                                                                                                                                   |



## 1.Parallel Use

XTR-480 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 :

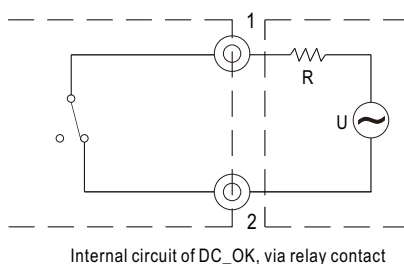
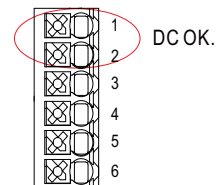
- (1) Parallel operation is available by connecting the units shown as below (P+,P- are connected mutually in parallel).
- (2) Difference of output voltages among parallel units should be less than 0.2V.
- (3) The total output current must not exceed the value determined by the following equation (Output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



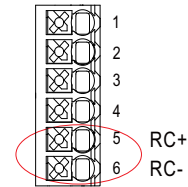
External voltage source (U) and resistor (R)  
(The max. Sink is 30Vdc/1A, 30Vac/0.5A)

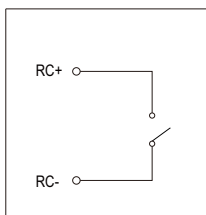
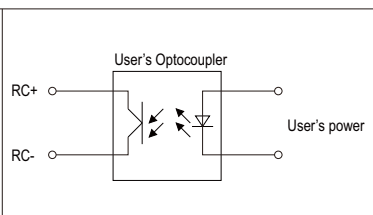
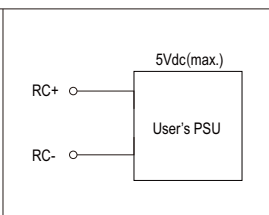
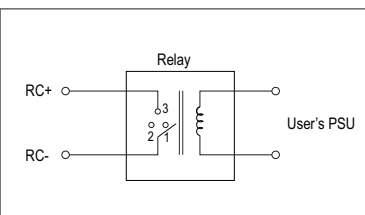
Internal circuit of DC\_OK, via relay contact

## 3. Remote ON/OFF Control

The PSU can be turned ON/OFF by using the "Remote Control" function.

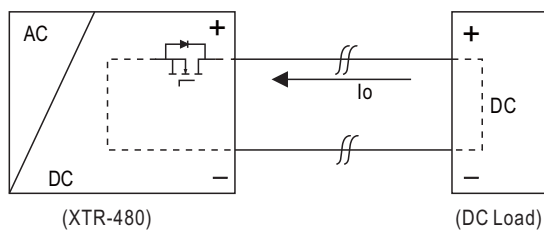
|                  |                       |
|------------------|-----------------------|
| PSU Vo Status    | Between RC+ and RC-   |
| Remote power ON  | Open or keep 2~5Vdc   |
| Remote power OFF | Short or keep <0.5Vdc |



|                                                                                   |                                                                                   |                                                                                    |                                                                                     |
|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|  |  |  |  |
| R.C. by external <b>switch</b> .                                                  | R.C. by user's <b>optocoupler</b> control module.                                 | R.C. by user's <b>external auxiliary power</b> .                                   | R.C. by user's <b>Relay</b> control module.                                         |

## 4. Protection Against Reverse Voltages from the Load

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

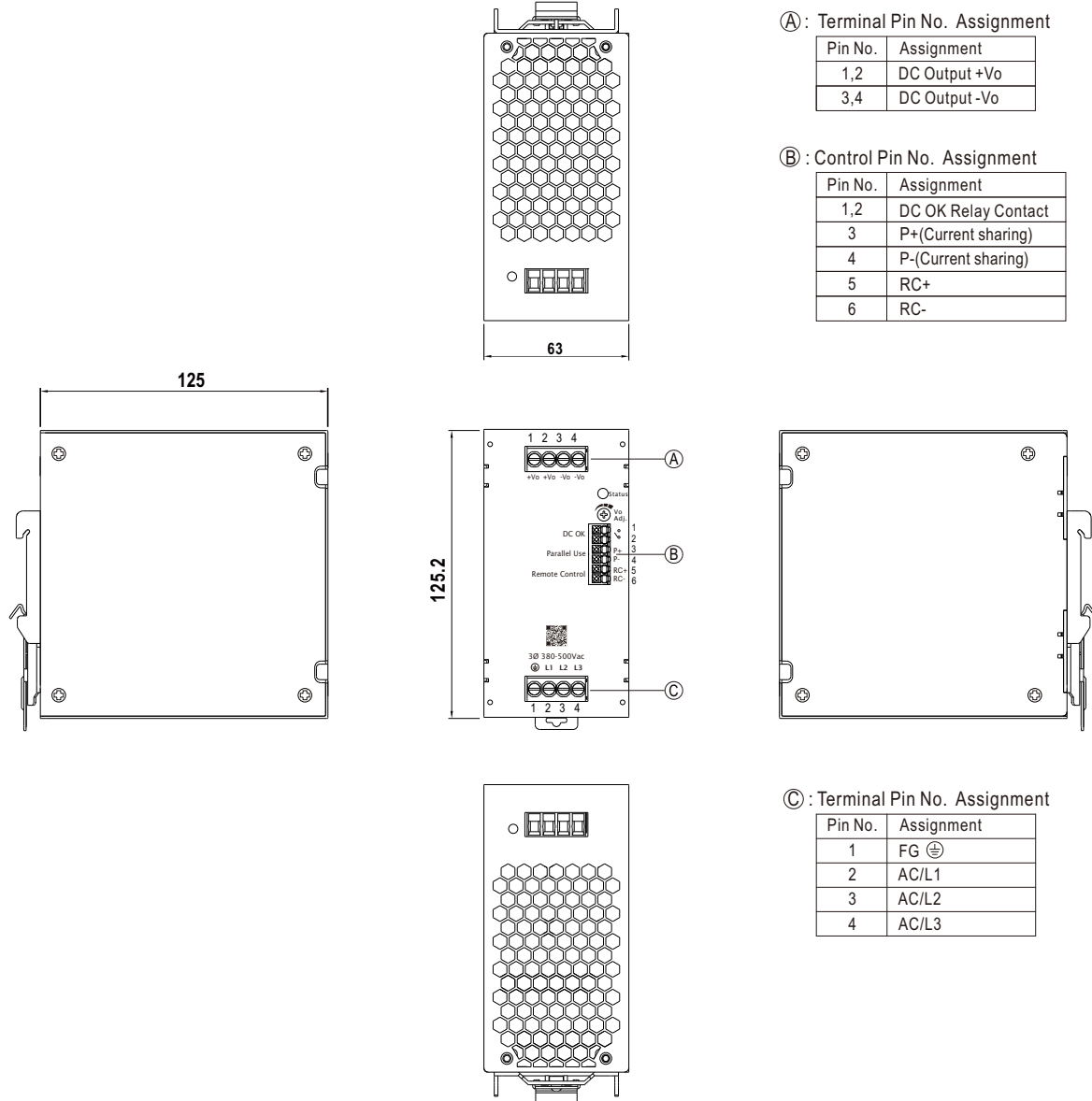


| PSU'S ORing FET turn OFF voltage |                                |
|----------------------------------|--------------------------------|
| MODEL                            | Max. allowable reverse voltage |
| XTR-480-12                       | <16V                           |
| XTR-480-24                       | <35V                           |
| XTR-480-36                       | <50V                           |
| XTR-480-48                       | <63V                           |

## Mechanical Specification

(Unit:mm , Tolerance  $\pm 1$ mm)

Case No.305



## Recommend Wiring

※ Screw Terminal Torque

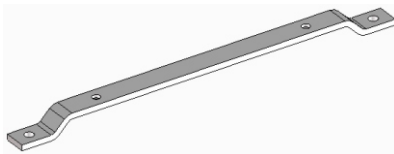
|                       |                  | AC Input T.B          | DC Output T.B         | Signal connector        |
|-----------------------|------------------|-----------------------|-----------------------|-------------------------|
| Solid Wire            |                  | 6mm <sup>2</sup> max. | 6mm <sup>2</sup> max. | 1.5mm <sup>2</sup> max. |
| A.W.G                 | XTR-480-12       | 18~10 AWG             | 12~10 AWG             | 24~16 AWG               |
|                       | XTR-480-24/36/48 |                       | 16~10 AWG             |                         |
| Wire Stripping Length |                  | 10~11mm               | 10~11mm               | 8~9mm                   |
| Screw Terminal Torque |                  | 5 Lb-In               | 5 Lb-In               | /                       |

※ Lever-Actuated and Push In

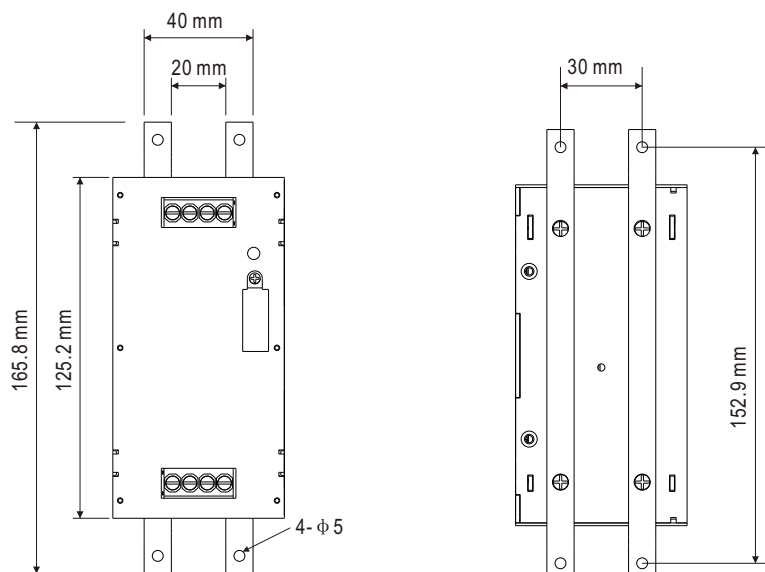
|                       |                  | AC Input T.B          | DC Output T.B         | Signal connector        |
|-----------------------|------------------|-----------------------|-----------------------|-------------------------|
| Solid Wire            |                  | 6mm <sup>2</sup> max. | 6mm <sup>2</sup> max. | 1.5mm <sup>2</sup> max. |
| A.W.G                 | XTR-480-12       | 18~10 AWG             | 12~10 AWG             | 24~16 AWG               |
|                       | XTR-480-24/36/48 |                       | 16~10 AWG             |                         |
| Wire Stripping Length |                  | 10~11mm               | 10~11mm               | 8~9mm                   |
| Screw Terminal Torque |                  | Not applicable        |                       |                         |

## ■ Accessory List and Installation Diagram for GL Type

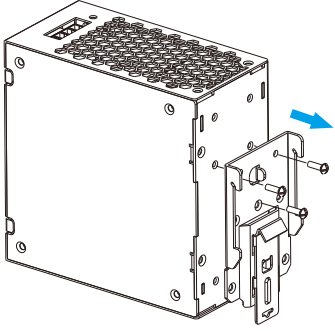
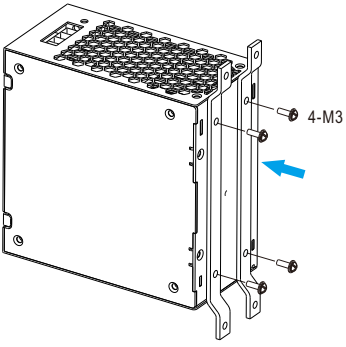
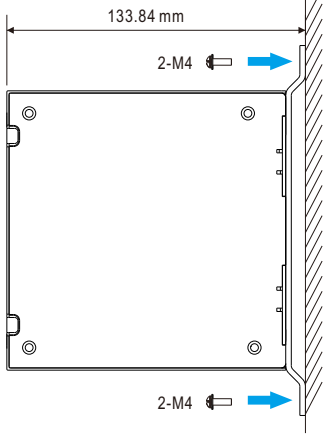
- The GL Type model is recommended for GNV certification or high vibration application.
- The GL Type model include the following accessories.

| NO. | Item                    |                                                                                     | Quantity |
|-----|-------------------------|-------------------------------------------------------------------------------------|----------|
| 1   | GL installation bracket |  | 2        |
| 2   | Screw(M3*8)             |  | 4        |
| 3   | Screw(M4*8)             |  | 4        |

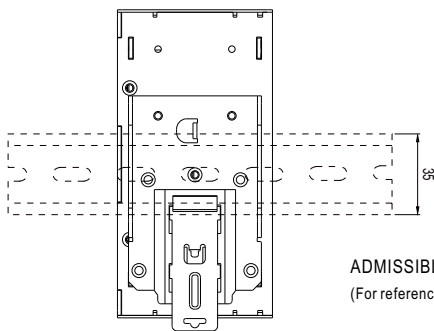
※ GL Type mechanical specification



## ※ GL Type installation steps

| Step1                                                                             | Step2                                                                                                                   | Step3                                                                                                 |
|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|
|  |                                        |                    |
| Detach the DIN Rail clip by removing screws.                                      | Mount the steel brackets to the back of the case with M3*8 (L=8mm) screws. Recommended screw torque setting is 5 Lb-In. | Mount the XTR-480 power supply directly to the wall/panel through the mounting holes on the brackets. |

## ■ 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.)

## ■ Installation Manual

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