



## Installation Manual

- **Type : XDR-E DIN rail power supply**  
( Series : XDR-75E, 120E, 150E, 240E, 480E, 960E )

| Model       | INPUT                     | OUTPUT    | Vo Adj.rang | Rated Power |
|-------------|---------------------------|-----------|-------------|-------------|
| XDR-75E-12  | 100-240VAC 1.4A 50/60Hz   | 12V 6.3A  | 12-15V      | 75.6 W      |
| XDR-75E-24  | 100-240VAC 1.4A 50/60Hz   | 24V 3.2A  | 24-29V      | 76.8 W      |
| XDR-75E-36  | 100-240VAC 1.4A 50/60Hz   | 36V 2.1A  | 36-42V      | 75.6 W      |
| XDR-75E-48  | 100-240VAC 1.4A 50/60Hz   | 48V 1.6A  | 48-55V      | 76.8 W      |
| XDR-120E-12 | 100-240VAC 2.3A 50/60Hz   | 12V 10A   | 12-15V      | 120 W       |
| XDR-120E-24 | 100-240VAC 2.3A 50/60Hz   | 24V 5A    | 24-29V      | 120 W       |
| XDR-120E-36 | 100-240VAC 2.3A 50/60Hz   | 36V 3.33A | 36-42V      | 119.88 W    |
| XDR-120E-48 | 100-240VAC 2.3A 50/60Hz   | 48V 2.5A  | 48-55V      | 120 W       |
| XDR-150E-12 | ① 100-120VAC 2.6A 50/60Hz | 12V 10A   | 12-15V      | 120 W       |
|             | ② 200-240VAC 1.6A 50/60Hz | 12V 11A   | 12-15V      | 132 W       |
| XDR-150E-24 | ① 100-120VAC 2.6A 50/60Hz | 24V 5.2A  | 24-29V      | 124.8 W     |
|             | ② 200-240VAC 1.6A 50/60Hz | 24V 6.5A  | 24-29V      | 156 W       |
| XDR-150E-36 | ① 100-120VAC 2.6A 50/60Hz | 36V 3.46A | 36-42V      | 124.56 W    |
|             | ② 200-240VAC 1.6A 50/60Hz | 36V 4.33A | 36-42V      | 155.88 W    |
| XDR-150E-48 | ① 100-120VAC 2.6A 50/60Hz | 48V 2.6A  | 48-55V      | 124.8 W     |
|             | ② 200-240VAC 1.6A 50/60Hz | 48V 3.25A | 48-55V      | 156 W       |
| XDR-240E-12 | 100-240VAC 2.6A 50/60Hz   | 12V 20A   | 12-15V      | 240 W       |
| XDR-240E-24 | 100-240VAC 2.6A 50/60Hz   | 24V 10A   | 24-29V      | 240 W       |
| XDR-240E-36 | 100-240VAC 2.6A 50/60Hz   | 36V 6.66A | 36-42V      | 239.76 W    |
| XDR-240E-48 | 100-240VAC 2.6A 50/60Hz   | 48V 5A    | 48-55V      | 240 W       |
| XDR-480E-12 | 100-240VAC 6.0A 50/60Hz   | 12V 30A   | 12-15V      | 360 W       |
| XDR-480E-24 | 100-240VAC 6.0A 50/60Hz   | 24V 20A   | 24-29V      | 480 W       |
| XDR-480E-36 | 100-240VAC 6.0A 50/60Hz   | 36V 13.3A | 36-42V      | 478.8 W     |
| XDR-480E-48 | 100-240VAC 6.0A 50/60Hz   | 48V 10A   | 48-55V      | 480 W       |
| XDR-960E-24 | 200-240VAC 6.0A 50/60Hz   | 24V 40A   | 24-29V      | 960 W       |
| XDR-960E-36 | 200-240VAC 6.0A 50/60Hz   | 36V 26.6A | 36-42V      | 957.6 W     |
| XDR-960E-48 | 200-240VAC 6.0A 50/60Hz   | 48V 20A   | 48-55V      | 960 W       |

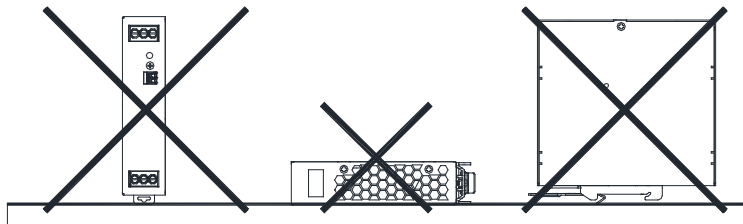
### ● Introduction

XDR-E is a DIN rail power supply series with an economical price and slim design. Like other Mean Well's DIN series, they can be mounted on a TS35 Standard DIN rail. The product is a component intended for build-in equipment and indoor use in Audio/video, information and communication technology equipment. The product is a component intended for incorporation in information technology equipment. These devices are open type power supplies and intended to be used in industrial control applications. The overall compliance shall be investigated in the complete information technology equipment.

# Installation Manual

## ● Installation

- (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) Use copper wire only, and recommended wires are shown as below.

| AWG                                                                                                                                        | 18  | 16  | 14  | 12  |
|--------------------------------------------------------------------------------------------------------------------------------------------|-----|-----|-----|-----|
| Rated Current of Equipment (Amp)                                                                                                           | 7A  | 10A | 15A | 20A |
| Cross-section of Lead(mm <sup>2</sup> )                                                                                                    | 0.8 | 1.3 | 2.1 | 3.3 |
| 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                 |
|----------|---------------------|---------------------|
| XDR-75E  | 5.8kgf-cm (5 Lb-in) | 5.8kgf-cm (5 Lb-in) |
| XDR-120E | 5.8kgf-cm (5 Lb-in) | 5.8kgf-cm (5 Lb-in) |
| XDR-150E | 5.8kgf-cm (5 Lb-in) | 5.8kgf-cm (5 Lb-in) |
| XDR-240E | 5.8kgf-cm (5 Lb-in) | 5.8kgf-cm (5 Lb-in) |
| XDR-480E | 5.8kgf-cm (5 Lb-in) | 5.8kgf-cm (5 Lb-in) |
| XDR-960E | 5.8kgf-cm (5 Lb-in) | 5.8kgf-cm (5 Lb-in) |

( 10 ) Suggested fuse and maximum number of the PSUs that can be connected to a circuit breaker at 230V are shown as below.

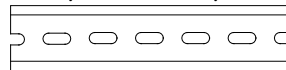
| Model    | Fuse         |
|----------|--------------|
| XDR-75E  | T3.15A/H250V |
| XDR-120E | T4A/L250V    |
| XDR-150E | T4A/L250V    |
| XDR-240E | F5A/H250V    |
| XDR-480E | F10A/H250V   |
| XDR-960E | F10A/H250V   |

( 11 ) Mounting Instruction :

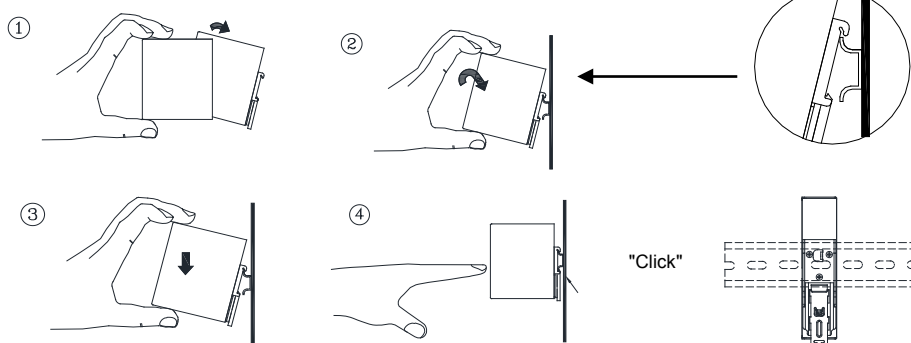
Mount as shown in figure only, with input terminals down, or else sufficient cooling will not be possible.

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.



( 12 ) Ventilation method: natural cooling of the air

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

# Installation Manual

## ● **Warning / Caution !!**

- (1) 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!
- (2) Risk of electric arcs and electric shock (danger to life). Connecting both the primary and the secondary sides together is not allowed.
- (3) Risk of burn hazard. Do not touch the unit in operation and shortly after disconnection!
- (4) Risk of fire and short circuit. The openings should be protected from foreign objects or dripping liquids.
- (5) Only install the unit in a pollution degree 2 environment (Note.1).
- (6) Please do not install the unit in places with high moisture or near the water.
- (7) XDR-E series can be operated with output full load at the maximum ambient temperature of 50°C. And they can also be operated with output 75% load at the maximum ambient temperature of 70°C (except for XDR-960E series that operated with output 70% load at the maximum ambient temperature of 70°C). Please do not install the unit in places with high ambient temperature or near fire source.
- (8) The PE () must be connected to PE (Protective Earth).
- (9) Output current and output wattage must not exceed the rated value on its specification.
- (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 risques d'incendie, remplacer par un fusible de même type et de mêmes caractéristiques nominales.
- (12)  Use copper connectors and wire only (Utilisation de connecteurs et de fils en cuivre uniquement)
- (13) If the equipment is used in a manner not specified by manufacture, the protection provided by the equipment may be impaired.

## ● **Avertissement / Attention !!**

- (1) Risque de choc électrique et d'énergie dangereuse. Toute défaillance doit être inspectée par un technicien qualifié. Ne retirez en aucun cas le boîtier de l'alimentation électrique vous-même !
- (2) Risque d'arc électrique et d'électrocution (danger mortel). Il est strictement interdit de connecter ensemble les côtés primaire et secondaire.
- (3) Risque de brûlure. Ne touchez pas l'appareil en fonctionnement ni immédiatement après sa déconnexion !
- (4) Risque d'incendie et de court-circuit. Les ouvertures doivent être protégées contre l'introduction de corps étrangers ou la pénétration de liquides.
- (5) Installer l'unité uniquement dans un environnement de degré de pollution 2 (Note 1).
- (6) Ne pas installer l'appareil dans des lieux humides ou à proximité de l'eau.
- (7) La température maximale de fonctionnement est de 50°C pour la série XDR-E. Veuillez ne pas installer l'appareil dans des endroits où la température ambiante est élevée ou à proximité d'une source de chaleur.
- (8) La masse (GND) () doit être connectée à la terre de protection (PE).
- (9) Le courant de sortie et la puissance de sortie ne doivent pas dépasser les valeurs nominales indiquées dans ses spécifications.



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- ( 10 ) Déconnecter le système de la tension d'alimentation :  
Avant de commencer toute opération d'installation, de maintenance ou de modification :  
Déconnectez le système de l'alimentation électrique. Assurez-vous qu'aucune reconnexion accidentelle du circuit ne soit possible !
- ( 11 ) Pour une protection continue contre le risque d'incendie, remplacez-le uniquement par le même type et la même puissance de fusible. Pour assurer une protection continue contre les risques d'incendie, utilisez uniquement un fusible de type identique et de caractéristiques nominales équivalentes.
- ( 12 )  Utilisation de connecteurs et de fils en cuivre uniquement (Use connectors and wire only)
- ( 13 ) Les instructions doivent indiquer que, si l'équipement est utilisé d'une manière non spécifiée par le fabricant, la protection fournie par l'équipement peut être altérée.

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 combined with this device is the responsibility of the system integrator.

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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<br>(Pb)         | Mercury<br>(Hg) | Cadmium<br>(Cd) | Hexavalent<br>chromium<br>(Cr <sup>6+</sup> ) | Polybrominated<br>biphenyls<br>(PBB) | Polybrominated<br>diphenyl ethers<br>(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.<br>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. |                      |                 |                 |                                               |                                      |                                             |

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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)<br>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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