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.

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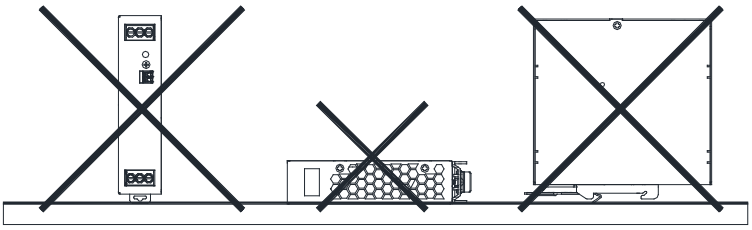
- **Installation**

（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^2)	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	1.5mm² 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.

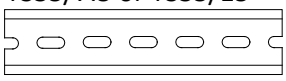
Model	Fuse
XDR-75E	T3.15A/H250V
XDR-120E	T4A/L250V
XDR-150E	T4A/L250V
XDR-240E	F5A/H250V
XDR-480E	F10A/H250V
XDR-960E	F10A/H250V

（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：



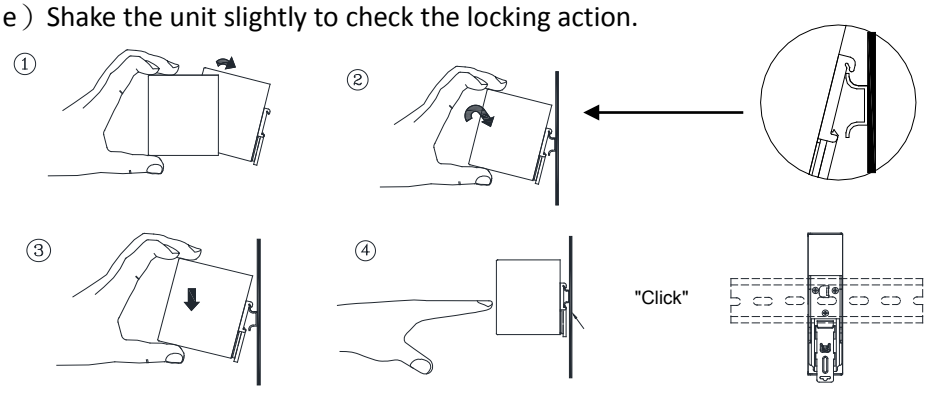
（a）Tilt the unit slightly rearwards.

（b）Fit the unit over top hat rail.

（c）Slide it downward until it hits the stop.

（d）Press against the bottom for locking.

（e）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 for details.

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- **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℃. And they can also be operated with output 75% load at the maximum ambient temperature of 70℃ (except for XDR-960E series that operated with output 70% load at the maximum ambient temperature of 70℃). 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 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）If the equipment is used in a manner not specified by manufacture ,the protection provided by the equipment may be impaired.
  - （14）♨ Hot surface,do not touch the product while it is working.

- **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.

（14） Surface chaude, ne pas toucher le produit lorsqu'il fonctionne.

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 (Pb)	Mercury (Hg)	Cadmium (Cd)	Hexavalent chromium (Cr^{6+})	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.

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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)