

# Installation Manual

- **Type : General Type DIN rail with Three Phase or High Input Range  
( Series : DRH-120, DRT-240, DRT-480, DRT-960 )**

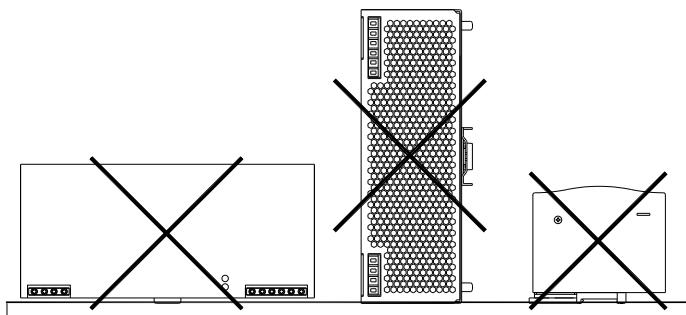
DRH-120-24	INPUT: 400 -500VAC 0.65A 50/60Hz	OUTPUT: 24V 5A
DRH-120-48	INPUT: 400 -500VAC 0.65A 50/60Hz	OUTPUT: 48V 2.5A
DRT-240-24	INPUT: 400 -500VAC 0.95A 50/60Hz	OUTPUT: 24V 10A
DRT-240-48	INPUT: 400 -500VAC 0.95A 50/60Hz	OUTPUT: 48V 5A
DRT-480-24	INPUT: 400 -500VAC 1.7A 50/60Hz	OUTPUT: 24V 20A
DRT-480-48	INPUT: 400 -500VAC 1.7A 50/60Hz	OUTPUT: 48V 10A
DRT-960-24	INPUT: 400 -500VAC 2.4A 50/60Hz	OUTPUT: 24V 40A
DRT-960-48	INPUT: 400 -500VAC 2.4A 50/60Hz	OUTPUT: 24V 20A

- **Introduction**

General type with three phase or high input range is a DIN rail power supply series with a high input range, 340-550Vac. Like other Mean Well's DIN series, they can be mounted on a TS35 Standard DIN rail.

- **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 for DRH-120, the input terminals on the right and output on the left for DRT-240, DRT-480 and DRT-960. 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	10
Rated Current of Equipment (Amp)	6A	6-10A	13-16A	16-25A	25-32A
Cross-section of Lead(mm <sup>2</sup> )	0.75	1.00	1.5	2.5	4

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.
- ( 5 ) Recommended wire strapping length is 5mm (0.197").
- ( 6 ) Recommended screwdriver is 4mm, slotted type.
- ( 7 ) The recommended torque setting for terminals is 10 kgf-cm (9 Lb-in).

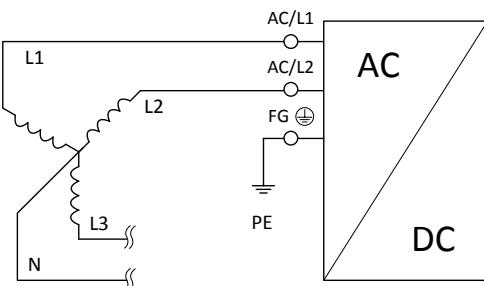
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(8) Suggested fuse and maximum number of the PSUs that can be connected to a circuit breaker at 230V are shown as below.

Model	Fuse	Circuit breaker	
		C16	D16
DRH-120	T4A/H250V	14	16
DRT-240	F3A/L250V	8	10
DRT-480	F6.3A/L250V	3	5
DRT-960	F6.3A/L250V	2	4

When an external circuit breaker is utilised, a minimum value is required to avoid undesired tripping of the circuit breaker.

(9) For DRH-120 series, it is capable of being connected between any 2 phases on a 3-phase-4-wire Wye (Star) connected system.



Using a fuse or a circuit break to protect the AC/L2 input is suggested. The AC/L2 input is internally non-protected.

(10) For DRT-240, DRT-480, and DRT-960 series, they are capable of dual phase operation (connecting L1, L3, FG for DRT-960), but that requires de-rating output current by 20%.

(11) Mounting Instruction :

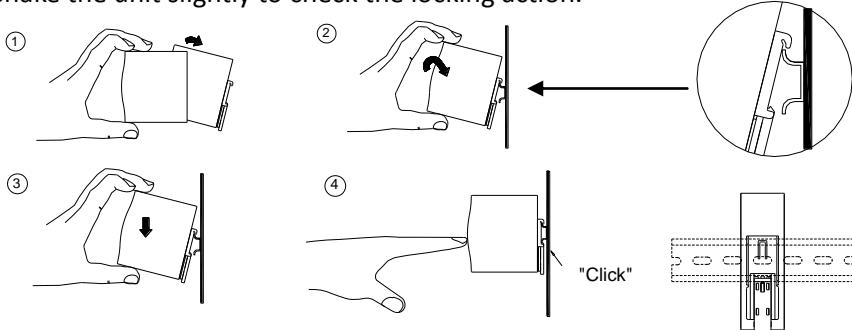
Mount as shown in figure only, with input terminals down, or else sufficient cooling will not be possible.

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) Electrical Tubing and sleeve – Recognized Component – Tubing (YDPU2) and/or sleeving (UZFT2), rated 300V, 105°C minimum.

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

- **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) The maximum operating temperature is 40°C for DRT-240 and DRT-480 series, 50°C for DRH-120 series and DRT-960 series, please do not install the unit in places with high ambient temperature or near fire source.
- (8) The FG (⏚) must be connected to PE (Protective Earth).
- (9) Output current and output wattage must not exceed the rated values 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.

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.



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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



## 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)