

Installation Manual

● Type : DIN-rail Switching Power Supply

Model	Input rating	Output rating
HDR-150-12	100-120VAC, 3.0A	12Vdc(10.8-13.8Vdc), max.10.2A, max. 122.4 watt
	200-240VAC, 1.8A	12Vdc(10.8-13.8Vdc), max.11.3A, max. 135.6 watt
HDR-150-15	100-120VAC, 3.0A	15Vdc(13.5-18Vdc), max.8.55A, max. 128.3 watt
	200-240VAC, 1.8A	15Vdc(13.5-18Vdc), max.9.5A, max. 142.5 watt
HDR-150-24	100-120VAC, 3.0A	24Vdc(21.6-29Vdc), max.5.31A, max. 127.4 watt
	200-240VAC, 1.8A	24Vdc(21.6-29Vdc), max.6.25A, max. 150 watt
HDR-150-48	100-120VAC, 3.0A	48Vdc(43.2-55.2Vdc), max.2.72, max. 130.6 watt
	200-240VAC, 1.8A	48Vdc(43.2-55.2Vdc), max.3.2A, max. 153.6 watt

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: Over voltage Category(OVC) III, according to EN61558-1, EN61558-2-16, UL61010-1, UL61010-2-201. Over voltage Category(OVC) II, according to EN62368-1, EN60664-1.

Note.3: RATED INPUT VOLTAGE shall be fluctuated up to $\pm 10\%$

Note.4: Others

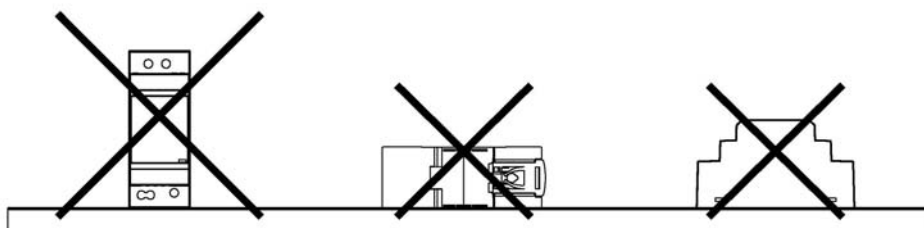
MTBF	536K hrs min. MIL-HDBK-217F (25°C)
DIMENSION	105*90*54.5mm (W*H*D)
PACKING	0.31Kg; 32pcs/11Kg/1.0CUFT

● Introduction

HDR is a DIN rail power supply series with ultra slim appearance and AC input range(100-120Vac, 200-240Vac). The series conforms to EN6100-3-2, the norm the European Union regulates for harmonic current. With plastic housing, it can effectively prevent user from electric hazards. Like other MEAN WELL's DIN series, they can be mounted on a TS35 Standard DIN rail.

● Installation

- (1) Always allow good ventilation clearances, 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.



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

AWG	18	16	14
Rated Current of Equipment (Amp)	7	10	15
Cross-section of Lead(mm ²)	0.8	1.3	2.1
Note : Current each wire carries should be de-rated to 80% of the current suggested above when using 4-6 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.

Use wires that can withstand temperatures of at least 80°C, such as UL1007.

Recommended wire strapping length is 6mm (0.236").

Recommended screwdriver is 3mm, slotted type.

The recommended torque setting for terminals is shown as below.

Model	I/P	O/P
HDR-150	Switchlab/MB312 4.4 lb-in	Switchlab/MB312 4.4 lb-in

- (8) Suggested fuse and maximum number of the HDR that can be connected to a circuit breaker at 240V are shown as below.

For USA, CANADA:

Considered current rating of protective device as part of the building installation (A) is 20 A.

For EU:

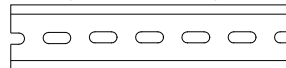
Model	Fuse	Circuit breaker	
		C16	D16
HDR-150	F5AH/250V	7	8

- (9) Mounting Instruction :

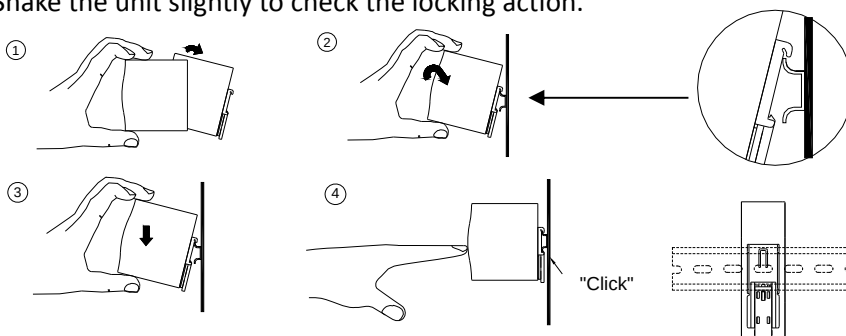
Mount as shown in figure only, with input terminals down, or else sufficient cooling will not be possible.

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.



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(10) For other information about the products, please refer to www.meanwell.com for details.

● **Warning / Caution !!**



“CAUTION : FOR USE IN A CONTROLLED ENVIRONMENT. REFER TO MANUAL FOR ENVIRONMENTAL CONDITION”
ATTENTION: A UTILISER DANS UN ENVIRONNEMENT CONTROLE. REFEREZ VOUS AU MANUEL POUR
LES CONDITIONS D’ENVIRONNEMENT.

- (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 45°C, please do not install the unit in places with high ambient temperature or near fire source.
- (8) Output current and output wattage must not exceed the rated value on its specification.
- (9) 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!
- (10) Before cleaning, disconnect your system from supply voltage.
Clean the terminal block and enclosures with a soft, dry, lint-free cloth. Do not use liquids or cleaning products.
- (11) If the equipment is used in a manner not specified by the manufacturer, the protection provided by the equipment may be impaired.
- (12) The safety of any system incorporating the equipment is the responsibility of the assembler of the system



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● **Avertissement / Attention**

ATTENTION: A UTILISER DANS UN ENVIRONNEMENT CONTROLE. REFEREZ VOUS AU MANUEL POUR LES CONDITIONS D'ENVIRONNEMENT.

- 1) Risque de choc électrique et de risque d'énergie. Toute défaillance doit être examinée par un technicien qualifié. S'il vous plaît ne retirez pas le boîtier de l'alimentation par vous-même!
- 2) Risque d'arcs électriques et de choc électrique (danger de mort). Il n'est pas permis de relier les côtés primaire et secondaire.
- (3) Risque de brûlure. Ne touchez pas l'appareil en cours de fonctionnement et peu de temps après sa déconnexion!
- 4) Risque d'incendie et de court-circuit. Les ouvertures doivent être protégées contre les objets étrangers et les gouttes de liquide.
- 5) Installez l'appareil uniquement dans un environnement ayant un degré de pollution 2 (Note.1).
- (6) Veuillez ne pas installer l'appareil dans des endroits très humides ou à proximité de l'eau.
- (7) La température maximale de fonctionnement est de 45 ° C. N'installez pas l'appareil dans des endroits où la température ambiante est élevée ou à proximité d'une source d'incendie.
- (8) Le courant de sortie et la puissance de sortie ne doivent pas dépasser la valeur nominale spécifiée.
- 9) Déconnectez le système de la tension d'alimentation:
Avant de commencer tout travail d'installation, de maintenance ou de modification: Déconnectez votre système de la tension d'alimentation. Assurez-vous que la connexion par inadvertance dans le circuit sera impossible!
- 10) Avant le nettoyage, débranchez la tension d'alimentation de votre système.
Nettoyez le bornier et les boîtiers avec un chiffon doux, sec et non pelucheux. Ne pas utiliser de liquides ou de produits de nettoyage.

(11) Si l'équipement est utilisé d'une manière non spécifiée par le fabricant, la protection fournie par l'équipement peut être altérée.

(12) La sécurité de tout système incorporant l'équipement est de la responsabilité de l'assembleur du système

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