



# Installation Manual

- **Type : HDR DIN rail power supply ( Series : HDR-15, HDR-30, HDR-60, HDR-100, HDR-150 )**

HDR-15-5	INPUT: 100-240VAC 0.5A 50/60Hz	OUTPUT: 5V 2.4A
HDR-15-12	INPUT: 100-240VAC 0.5A 50/60Hz	OUTPUT: 12V 1.25A
HDR-15-15	INPUT: 100-240VAC 0.5A 50/60Hz	OUTPUT: 15V 1.0A
HDR-15-24	INPUT: 100-240VAC 0.5A 50/60Hz	OUTPUT: 24V 0.63A
HDR-15-48	INPUT: 100-240VAC 0.5A 50/60Hz	OUTPUT: 48V 0.32A
HDR-30-5	INPUT: 100-240VAC 0.88A 50/60Hz	OUTPUT: 5V 3.0A
HDR-30-12	INPUT: 100-240VAC 0.88A 50/60Hz	OUTPUT: 12V 2.0A
HDR-30-15	INPUT: 100-240VAC 0.88A 50/60Hz	OUTPUT: 15V 2.0A
HDR-30-24	INPUT: 100-240VAC 0.88A 50/60Hz	OUTPUT: 24V 1.5A
HDR-30-48	INPUT: 100-240VAC 0.88A 50/60Hz	OUTPUT: 48V 0.75A
HDR-60-5	INPUT: 100-240VAC 1.8A 50/60Hz	OUTPUT: 5V 6.5A
HDR-60-12	INPUT: 100-240VAC 1.8A 50/60Hz	OUTPUT: 12V 4.5A
HDR-60-15	INPUT: 100-240VAC 1.8A 50/60Hz	OUTPUT: 15V 4.0A
HDR-60-24	INPUT: 100-240VAC 1.8A 50/60Hz	OUTPUT: 24V 2.5A
HDR-60-48	INPUT: 100-240VAC 1.8A 50/60Hz	OUTPUT: 48V 1.25A
HDR-100-12	INPUT: 100-240VAC 3.0A 50/60Hz	OUTPUT: 12V 7.1A
HDR-100-15	INPUT: 100-240VAC 3.0A 50/60Hz	OUTPUT: 15V 6.13A
HDR-100-24	INPUT: 100-240VAC 3.0A 50/60Hz	OUTPUT: 24V 3.83A
HDR-100-48	INPUT: 100-240VAC 3.0A 50/60Hz	OUTPUT: 48V 1.92A
HDR-100-12N	INPUT: 100-240VAC 3.0A 50/60Hz	OUTPUT: 12V 7.5A
HDR-100-15N	INPUT: 100-240VAC 3.0A 50/60Hz	OUTPUT: 15V 6.5A
HDR-100-24N	INPUT: 100-240VAC 3.0A 50/60Hz	OUTPUT: 24V 4.2A
HDR-100-48N	INPUT: 100-240VAC 3.0A 50/60Hz	OUTPUT: 48V 2.1A
HDR-150-12	INPUT: 100-120VAC 3.0A 50/60Hz	OUTPUT: 12V 10.2A
	INPUT: 200-240VAC 1.8A 50/60Hz	OUTPUT: 12V 11.3A
HDR-150-15	INPUT: 100-120VAC 3.0A 50/60Hz	OUTPUT: 15V 8.55A
	INPUT: 200-240VAC 1.8A 50/60Hz	OUTPUT: 15V 9.5A
HDR-150-24	INPUT: 100-120VAC 3.0A 50/60Hz	OUTPUT: 24V 5.31A
	INPUT: 200-240VAC 1.8A 50/60Hz	OUTPUT: 24V 6.25A
HDR-150-48	INPUT: 100-120VAC 3.0A 50/60Hz	OUTPUT: 48V 2.72A
	INPUT: 200-240VAC 1.8A 50/60Hz	OUTPUT: 48V 3.2A

- **Introduction**

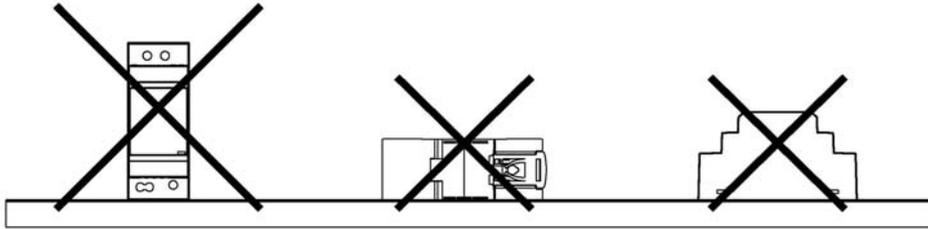
HDR is a DIN rail power supply series with ultra slim appearance and full range AC input (100-240Vac). The series conforms to EN6100-3-2, the norm the European Union regulates for harmonic current. With plastic housing, it can effectively prevent user from electric hazards. Like other Mean Well's DIN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

- **Installation**

- (1) Always allow good ventilation clearances, 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.

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- (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
Rated Current of Equipment (Amp)	7	10	15
Cross-section of Lead(mm <sup>2</sup> )	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.

- (4) Use wires that can withstand temperatures of at least 80°C, such as UL1007.  
 (5) Recommended wire strapping length is 6mm (0.236").  
 (6) Recommended screwdriver is 3mm, slotted type.  
 (7) The recommended torque setting for terminals is shown as below.

Model	I/P	O/P
HDR-15	5 kgf-cm (4.4 Lb-in)	5 kgf-cm (4.4 Lb-in)
HDR-30	3.4 kgf-cm (3.0 Lb-in)	5 kgf-cm (4.4 Lb-in)
HDR-60	3.4 kgf-cm (3.0 Lb-in)	5 kgf-cm (4.4 Lb-in)
HDR-100	3.4 kgf-cm (3.0 Lb-in)	5 kgf-cm (4.4 Lb-in)
HDR-150	5.8 kgf-cm (5.0 Lb-in)	5.8 kgf-cm (5.0 Lb-in)

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

Model	Fuse	Circuit breaker	
		C16	D16
HDR-15	T2A/L250V	32	51
HDR-30	T3.15A/H250V	12	24
HDR-60	T3.15A/H250V	7	14
HDR-100	T3.15A/H250V	7	8
HDR-150	F5A/H250V	7	8

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(9) Mounting Instruction :

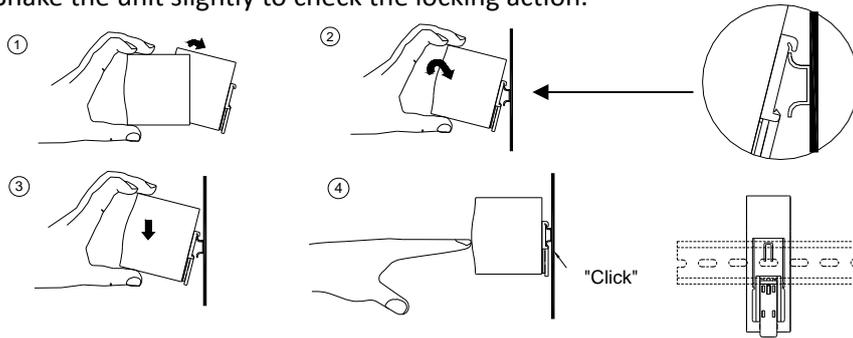
Mount as shown in figure only, with input terminals down, or else sufficient cooling will not be possible.

Admissible DIN rail : TS35/7.5 or TS35/15

For rail fastening :



- (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.



(10) For other information about the products, please refer to [www.meanwell.com](http://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 50°C for the HDR-15/30; 45°C for the HDR-60/100/150, 40°C for the HDR-100N, 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!

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 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 <sup>6+</sup> )	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.