- **Type：MDR DIN rail power supply （Series： MDR-10, MDR-20, MDR-40, MDR-60, MDR-100)**

| | | |
|---|---|---|
| MDR-10-5 | INPUT: 100 -240VAC 0.33A 50/60Hz | OUTPUT: 5V 2A |
| MDR-10-12 | INPUT: 100 -240VAC 0.33A 50/60Hz | OUTPUT: 12V 0.84A |
| MDR-10-15 | INPUT: 100 -240VAC 0.33A 50/60Hz | OUTPUT: 15V 0.67A |
| MDR-10-24 | INPUT: 100 -240VAC 0.33A 50/60Hz | OUTPUT: 24V 0.42A |
| MDR-20-5 | INPUT: 100 -240VAC 0.55A 50/60Hz | OUTPUT: 5V 3A |
| MDR-20-12 | INPUT: 100 -240VAC 0.55A 50/60Hz | OUTPUT: 12V 1.67A |
| MDR-20-15 | INPUT: 100 -240VAC 0.55A 50/60Hz | OUTPUT: 15V 1.34A |
| MDR-20-24 | INPUT: 100 -240VAC 0.55A 50/60Hz | OUTPUT: 24V 1A |
| MDR-40-5 | INPUT: 100 -240VAC 1.1A 50/60Hz | OUTPUT: 5V 6A |
| MDR-40-12 | INPUT: 100 -240VAC 1.1A 50/60Hz | OUTPUT: 12V 3.33A |
| MDR-40-24 | INPUT: 100 -240VAC 1.1A 50/60Hz | OUTPUT: 24V 1.7A |
| MDR-40-48 | INPUT: 100 -240VAC 1.1A 50/60Hz | OUTPUT: 48V 0.83A |
| MDR-60-5 | INPUT: 100 -240VAC 1.8A 50/60Hz | OUTPUT: 5V 10A |
| MDR-60-12 | INPUT: 100 -240VAC 1.8A 50/60Hz | OUTPUT: 12V 5A |
| MDR-60-24 | INPUT: 100 -240VAC 1.8A 50/60Hz | OUTPUT: 24V 2.5A |
| MDR-60-48 | INPUT: 100 -240VAC 1.8A 50/60Hz | OUTPUT: 48V 1.25A |
| MDR-100-12 | INPUT: 100 -240VAC 1.3A 50/60Hz | OUTPUT: 12V 7.5A |
| MDR-100-24 | INPUT: 100 -240VAC 1.3A 50/60Hz | OUTPUT: 24V 4A |
| MDR-100-48 | INPUT: 100 -240VAC 1.3A 50/60Hz | OUTPUT: 48V 2A |

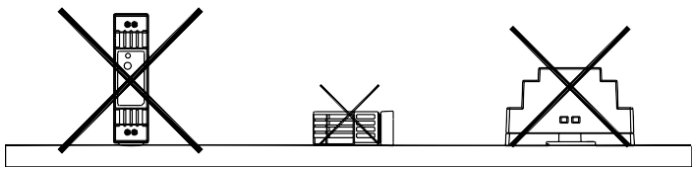
- **Introduction**

MDR is a DIN rail power supply series with < 1W no load power consumption. And 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. 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) | 6A | 6-10A | 13-16A | 16-25A |
| Cross-section of Lead($mm^2$ ) | 0.75 | 1.00 | 1.5 | 2.5 |
| 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 6.5mm (0.255”).

（6） Recommended screwdriver is 3mm, slotted type.

（7） The recommended torque setting for terminals is 5 kgf-cm (4.4 Lb-in).

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

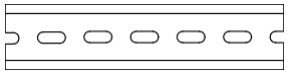
| Model | Fuse | Circuit breaker | |
|---|---|---|---|
| | | C16 | D16 |
| MDR-10 | T2A/L250V | 11 | 22 |
| MDR-20 | T2A/L250V | 9 | 18 |
| MDR-40 | T2.5A/L250V | 6 | 13 |
| MDR-60 | T2.5A/L250V | 4 | 9 |
| MDR-100 | T4A/L250V | 10 | 13 |

（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.