



Dimension: 199 × 98 × 38mm

Features:

- AC input range selected by switch
- Small volume, low weight, high efficiency
- Protections : short circuit/over load/over voltage
- Cooling by DC fan
- Built-in fan speed control
- LED indicator for power on
- 100% full load burn-in test
- 2 Years warranty



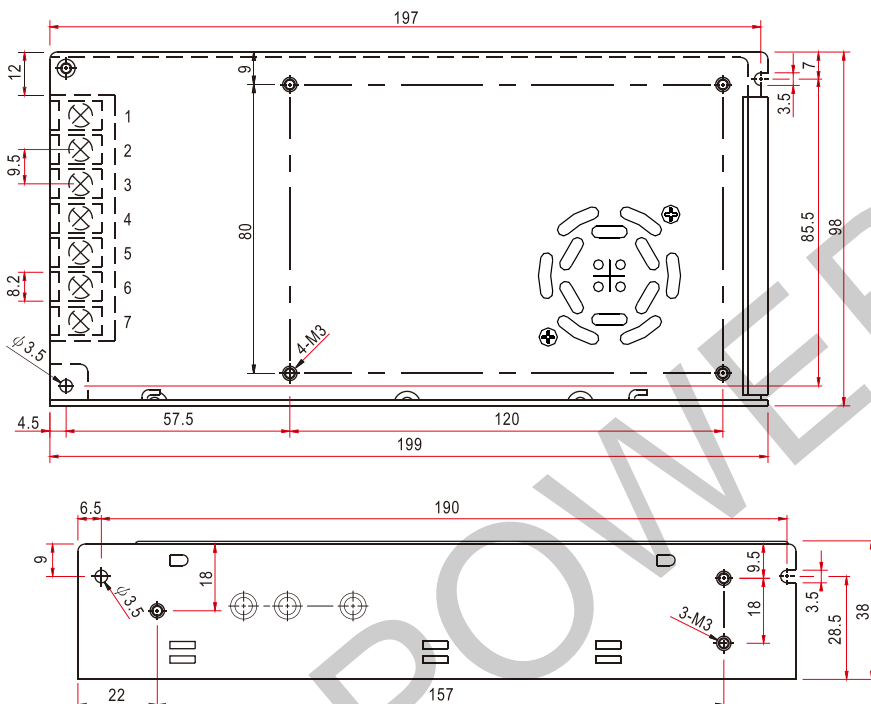
SPECIFICATION

| Model                     |                        | MS-250-12  | MS-250-24  |
|---------------------------|------------------------|--|------------|
| Output                    | DC voltage             | 12V  | 24V        |
|                           | Voltage tolerance      | ± 2%   | ± 2%       |
|                           | Rated current          | 20A  | 10A        |
|                           | Current range          | 0 ~ 20A  | 0 ~ 10A    |
|                           | Rated power            | 240W   | 240W       |
|                           | Ripple&noise           | 180mVp-p   | 200mVp-p   |
|                           | DC voltage ADJ. range  | ± 10%  | ± 10%      |
| Setup, rise, hold up time |                        | 600ms,20ms,24ms/230VAC, 1000ms,30ms,20ms/115VAC                              |            |
| Input                     | Voltage range          | 90 ~ 130VAC/180~264VAC(selected by switch) 47 ~ 63Hz, 254 ~ 373VDC           |            |
|                           | AC current             | 5.5A/115VAC  | 3.0/230VAC |
|                           | Efficiency             | 86%  | 88%        |
|                           | Inrush current         | Cold start55A/230VAC   |            |
|                           | leakage current        | < 3.5mA/240VAC   |            |
| Protection                | Overload               | Rated output power110% ~ 135%Start overload protection                       |            |
|                           |                        | Protection type: hiccup mode, auto-recovery after fault condition is removed |            |
| Protection                | Over voltage           | 16.2~18.8V   | 30.8~33.8V |
|                           |                        | Protection type: hiccup mode, auto-recovery after fault condition is removed |            |
| Environment               | Working temp, humidity | -10°C ~ +50°C;20% ~ 90%RH(Please refer to "derating curve" )                 |            |
|                           | Storage temp, humidity | -25°C ~ +85°C;10% ~ 95%RH Non-condensing                                     |            |
|                           | Withstand vibration    | 10 ~ 500Hz, 2G 10min./1Cycle, Period for 60min, Each axes                    |            |
| Safety                    | Withstand voltage      | I/P-O/P: 1.5KVAC I/P-FG: 1.5KVAC O/P-FG: 0.5KVAC                             |            |
|                           | Isolation resistance   | I/P-O/P: I/P-FG,O/P-FG: 100M Ohms/500VDC                                     |            |
| Fit standard              | Safety standard        | Compliance to UL1012,UL60950-1,GB4943  |            |
|                           | EMC Standard           | Compliance to EN55022, EN61000-3-2,CLASSA                                    |            |
| Others                    | Dimension              | 199*98*38 ( L*W*H )  |            |
|                           | Weight                 | 0.65kg/45pcs/30.5kg/0.041m³/1.44CUFT   |            |
|                           | MTBF                   | 260K hrs min. MIL-HDBK-217F(25°C)  |            |

Note: 1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.  
 2. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor.  
 3. Tolerance : includes set up tolerance, line regulation and load regulation.

### Mechanical specification

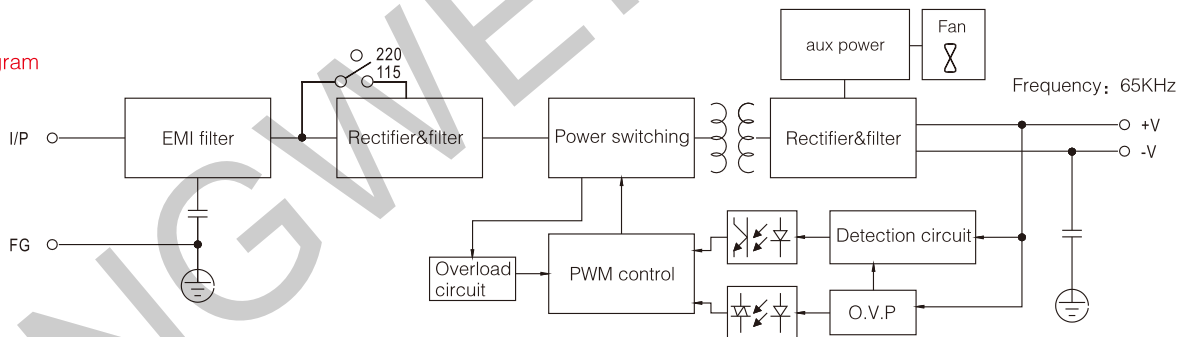
Unit:mm



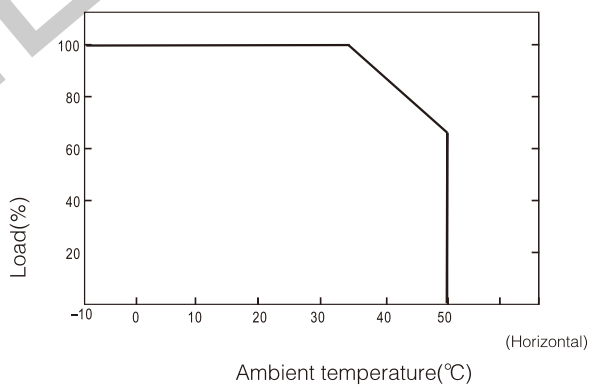
Terminal Pin No.Assignment

| Pin No. | Assignment | Pin No. | Assignment   |
|---------|------------|---------|--------------|
| 1       | AC/L       | 4       | DC OUTPUT -V |
| 2       | AC/N       | 5       | DC OUTPUT +V |
| 3       | FG $\perp$ |         |              |

### Block diagram



### Derating curve



### Static characteristic

