



## 100W STANDARD SWITCHING POWER SUPPLY SINGLE OUTPUT



( Dimension )

L:190 mm

W:50 mm

H:31mm

Weight: 0.27Kg



### ■Applications

- .Industrial automation machinery
- .Mechanical,electrical equipment
- .LED slim lighting equipment
- .IT communication equipment
- .Aging equipment

### ■Features

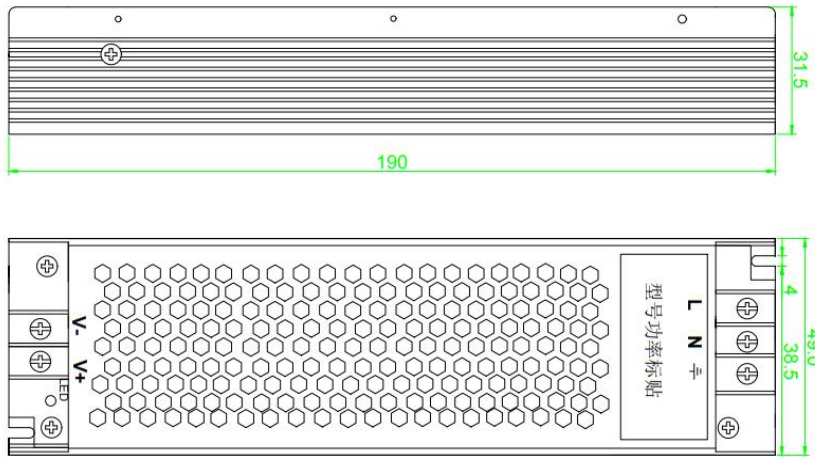
- .Over-load,Over-temp. protection
- .cooling by free air convection
- .LED power indicator
- .100% full load burn-in test
- .No-load consumption <0.7W
- .Withstand 300VAC surge input for 5 second
- .Working temperature up to 60℃
- .5G vibration tested
- .High efficiency,long life,high reliability
- .2 years warranty

### Specifications

| Product No.                |  | SLC-100-12   | SLC-100-24 |  |  |  |  |
|----------------------------|--|--|------------|--|--|--|--|
| Output                     | DC voltage   | 12V  | 24V        |  |  |  |  |
|                            | Rated Current  | 8.3A   | 4.17A      |  |  |  |  |
|                            | Current Range  | 0-8.3A   | 0-4.17A    |  |  |  |  |
|                            | Rated Power  | 100W   | 100W       |  |  |  |  |
|                            | Ripple and Noise(Max)Note.2  | 150mVp-p   | 240mVp-p   |  |  |  |  |
|                            | Voltage adjustment   | 10.8-13.2V   | 22-27.6V   |  |  |  |  |
|                            | Voltage tolerance Note3  | ±1%  | ±1%        |  |  |  |  |
|                            | Linear Regulation Note4  | ±0.5%  | ±0.5%      |  |  |  |  |
|                            | Load Regulation Note5  | ±0.5%  | ±0.5%      |  |  |  |  |
| Setup and rise time        | 1000ms,30ms/230VAC 1000ms,30ms/110V  |  |            |  |  |  |  |
| Hold up time (Typ)         | 50ms/230VAC 10ms/115AC   |  |            |  |  |  |  |
| Input                      | Voltage range  | 100-240VAC   |            |  |  |  |  |
|                            | Frequency range  | 50HZ/60HZ  |            |  |  |  |  |
|                            | Efficiency (Typ)   | 81%  | 83%        |  |  |  |  |
|                            | AC current (Typ)   | 1.89A/110V 0.95A/220V  |            |  |  |  |  |
|                            | Surge (Inrush) current (Typ)   | Cold start: 65A/230VAC   |            |  |  |  |  |
|                            | Leakage Current  | <2mA/240VAC  |            |  |  |  |  |
| Protection                 | Overload   | >105% rated output power   |            |  |  |  |  |
|                            |  | Protection type: Hiccup mode, recovers automatically after fault condition is removed                                      |            |  |  |  |  |
|                            | Over temperature   | Overheat protection starts when temperature in transistor over 140℃<br>Recovers automatically after temperature is normal. |            |  |  |  |  |
| Environment                | Working temp.  | -20~+50℃(Please refer to the attenuation curve)  |            |  |  |  |  |
|                            | Working humidity   | 20~90% RH,Non-condensing   |            |  |  |  |  |
|                            | Storage temp & hmdty   | -40~+80℃   |            |  |  |  |  |
|                            | Temp. coefficient  | ±0.03%/℃ (0~50℃)   |            |  |  |  |  |
|                            | Vibration proof  | 10~500HZ,5G 10min/1 cycle, period for 60min. each along X、Y、Z axes   |            |  |  |  |  |
| Safety reg. & EMC (Note.6) | Safety regulation  | GB195110.1-2004/IEC61347-1:2003 CE(EMC+LVD)  |            |  |  |  |  |
|                            | Voltage proof  | I/P-O: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/25℃/70% RH   |            |  |  |  |  |
|                            | EMC irradiation  | EN 55022A:2006;EN61000-3-2:1995+A2:2005  |            |  |  |  |  |
|                            | EMC disturbance proof  | EN 61000-3-2:2006;   |            |  |  |  |  |
| Others                     | Dimensions   | 190*50*30mm(L*W*H)   |            |  |  |  |  |
|                            | Packing  | 0.23kg/PCS;60PCS/13.8kg  |            |  |  |  |  |
| Remark                     | 1. Unless specially indicated, all data are taken under 230VAC input, rated load and 25℃ environment temp.<br>2. Ripple and noise: measured with a 12" double ripple cord connected in parallel with a 0.1μF and a 47 μF capacitor on 20MHz bandwidth.<br>3. Tolerance(Accuracy): including preset errors, linear adjustment rate and load adjustment rate.<br>4. Linear adjustment: taken under rated load from low voltage to high voltage.<br>5. Load adjustment: taken under 0~100% of rated load.<br>6. Power supply is taken as part of the whole system, and needs to be confirmed with terminal instruments for EMC. |  |            |  |  |  |  |

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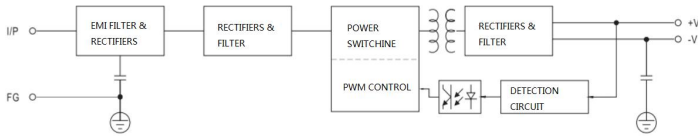
## Appearance



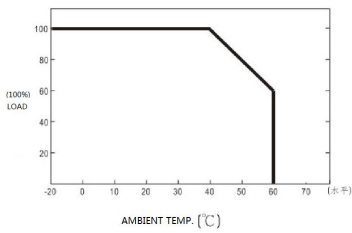
Definitionn the pin of the terminal

| Pin number | Pin function |
|------------|--------------|
| 1          | OUTPUT+      |
| 2          | OUTPUT+      |
| 3          | OUTPUT-      |
| 4          | OUTPUT-      |
| 5          | FG           |
| 6          | AC/N         |
| 7          | AC/L         |

## Frame diagram



## Derating curve



## Static Characteristics

