# AC ➡ DC SWITCHING POWER SUPPLY

# SLP1100 SERIES

## Features

DIMENSIONS : 151(L) x 99(W) x 35(H)mm
WEIGHTS: 500g

- Convection cooled
- 100% burn-in test
- MOSFET designed
- 2 years Warranty
- Output modify range: 3V~200VDC
- Split rail & Series connection possible

## General specifications

### *INPUT*

| | |
|---|---|
| **Input range** | 90~264VAC<br>127~380VDC |
| **Input frequency** | 47~63Hz |
| **Max. I/P current / Inrush current (25° C)** | 2.5A/20A@110VAC<br>1.0A/40A@220VAC |

### *OUTPUT*

| | |
|---|---|
| **Hold-up time** | 16mS |
| **Short protection** | Autorecovery |
| **Overload protection** | Automatic power limited |
| **Over voltage protection** | Optional |

## Detail specifications

### *100 Watts*

| MODEL | O/P Volt Adj. ± % | Load(Current) 1 | | | Ripple & Noise 4 | Line REG. 2 | Load REG. 3 | Efficiency 5 | O.V.P |
|---|---|---|---|---|---|---|---|---|---|
| | | Min. | Rated | Max. | | | | | |
| SLP1100-12F | V : +12V ±10% | 0A | 8.3A | 8.3A | 120mV | ±1% | ±1% | 85% Ref. | 17.1 ~ 18.9V |
| SLP1100-24F | V : +24V ±10% | 0A | 4.2A | 4.2A | 240mV | ±1% | ±1% | 89% Ref. | 31.4 ~ 34.7V |
| SLP1100-48F | V : +48V ±10% | 0A | 2.1A | 2.1A | 480mV | ±1% | ±1% | 91% Ref. | 64.6 ~ 71.4V |
| SLP21001F | V1 : +12V±10%<br>V2 : +5V | 0A<br>0A | 7.1A<br>3A | 7.1A<br>3A | 120mV<br>40mV | ±1% | ±1% | 85% Ref. | 17.1 ~ 18.9V<br>5.8 ~ 7.0V |
| SLP21002F | V1 : +24V±10%<br>V2 : +5V | 0A<br>0A | 3.55A<br>3A | 3.55A<br>3A | 240mV<br>40mV | ±1% | ±1% | 85% Ref. | 31.4 ~ 34.7V<br>5.8 ~ 7.0V |
| SLP21003F | V1 : +24V±10%<br>V2 : +12V | 0A<br>0A | 3.17A<br>2A | 3.17A<br>2A | 240mV<br>80mV | ±1% | ±1% | 85% Ref. | 31.4 ~ 34.7V<br>15 ~ 18V |
| SLP21004F | V1 : +48V±10%<br>V2 : +12V | 0A<br>0A | 1.63A<br>1.2A | 1.63A<br>1.2A | 480mV<br>80mV | ±1% | ±1% | 91% Ref. | 64.6 ~ 71.4V<br>15 ~ 18V |
| SLP31001F | V1 : +24V±10%<br>V2 : +12V<br>V3 : +5V | 0A<br>0A<br>0A | 2.535A<br>2A<br>3A | 2.535A<br>2A<br>3A | 240mV<br>80mV<br>40mV | ±1% | ±1% | 85% Ref. | 31.4 ~ 34.7V<br>15 ~ 18V<br>5.8 ~ 7.0V |
| SLP31002F | V1 : +36V±10%<br>V2 : +12V<br>V3 : +5V | 0A<br>0A<br>0A | 2.19A<br>1.2A<br>1.3A | 2.19A<br>1.2A<br>1.3A | 360mV<br>80mV<br>40mV | ±1% | ±1% | 85% Ref. | 47.8 ~ 53.2V<br>15 ~ 18V<br>5.8 ~ 7.0V |
| SLP31003F | V1 : +24V±10%<br>V2 : +12V<br>V3 : -12V | 0A<br>0A<br>0A | 2.84A<br>2A<br>-0.65A | 2.84A<br>2A<br>-0.65A | 240mV<br>80mV<br>80mV | ±1% | ±1% | 85% Ref. | 31.4 ~ 34.7V<br>15 ~ 18V<br>-15 ~ -18V |
| SLP31004F | V1 : +36V±10%<br>V2 : +12V<br>V3 : -12V | 0A<br>0A<br>0A | 2.16A<br>1.2A<br>-0.4A | 2.16A<br>1.2A<br>-0.4A | 360mV<br>80mV<br>80mV | ±1% | ±1% | 85% Ref. | 47.8 ~ 53.2V<br>15 ~ 18V<br>-15 ~ -18V |
| SLP31005F | V1 : +12V±10%<br>V2 : +5V<br>V3 : -12V | 0A<br>0A<br>0A | 6.43A<br>3A<br>-0.65A | 6.43A<br>3A<br>-0.65A | 120mV<br>40mV<br>80mV | ±1% | ±1% | 85% Ref. | 17.1 ~ 18.9V<br>5.8 ~ 7.0V<br>-15 ~ -18V |

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## CE Standards

EN 55032, EN 55035,
EN 61000-3-2, EN 61000-3-3,
(EN 61000-4-2, EN 61000-4-3,
EN 61000-4-4, EN 61000-4-5,
EN 61000-4-6, EN 61000-4-8,
EN 61000-4-11)
LVD: EN 62368-1

## Safety Standards

c UL us E159228 **UL 60950 Meet**

CE **Marking**

## Environments

| | |
|---|---|
| **Operating Temperature** | -15 ~ 50°C, Ambient |
| **Operating Humidity** | 20 ~ 90% RH, No Condensing |
| **Storage Temperature** | -20 ~ 85°C, Ambient |
| **Vibration** | 2G, 10~500Hz, 3 axes |

## *NOTE*

1. **Each output can provide up to maximum load, but total load can not exceed rated output power.**
2. **Line regulation is measured from low line to high line at rated load.**
3. **Load regulation is measured from 20% to 100% of rated load at 220VAC input.**
4. **Ripple & Noise are measured with 20MHz oscilloscope at 220VAC by using a 20cm long 12" twisted pair-wire with a 0.1uF/630V metal capacitor & a 47uF electrolytic capacitor parallel on the test point.**
5. **Efficiency is measured at rated load and 220VAC input.**
6. **Hold-up time is measured at rated load and 220VAC input.**
7. **Output Voltage Adjustable is measured on 5% of rated load.**
8. **Reign Power reserve the right to change specifications at any time without notice.**

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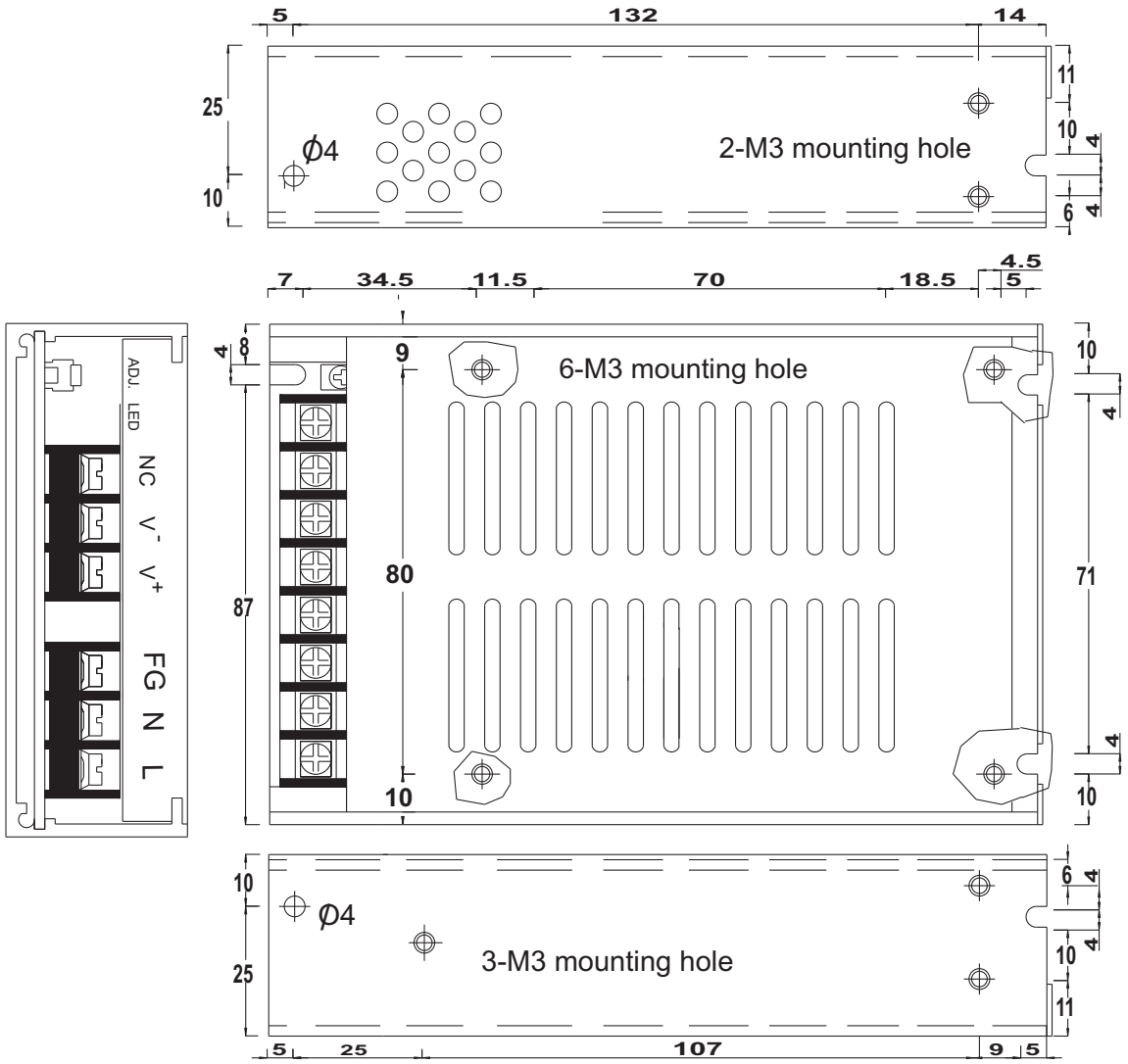
## Mechanical Details




## Panel Designation

**CASE NO. : SLP1100**
**UNIT : mm**
**DIMENSION : 151(L)*99(W)*35(H)**
**MATERIAL : ALUMINUM**
**COLOR : ORIGINAL ALUMINUM**

| Symbol | Description |
|---|---|
| L | Line Terminal Of AC Input (No Polarity At DC Input) |
| N | Neutral Terminal Of AC Input (No Polarity At DC Input) |
| FG | Grounding (Earth) |
| $V^+$ | DC Output Positive Terminal |
| $V^-$ | DC Output Negative Terminal |
| NC | No Connection |