


**Features:**

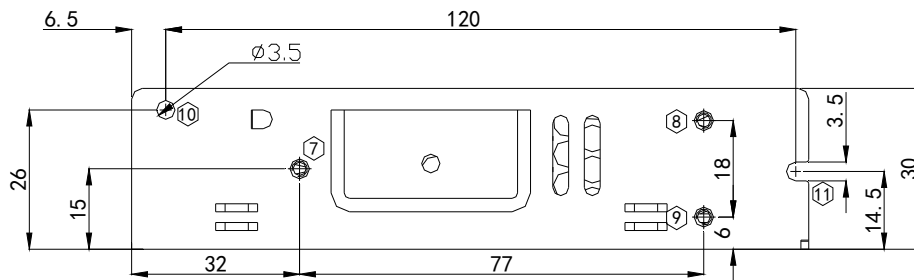
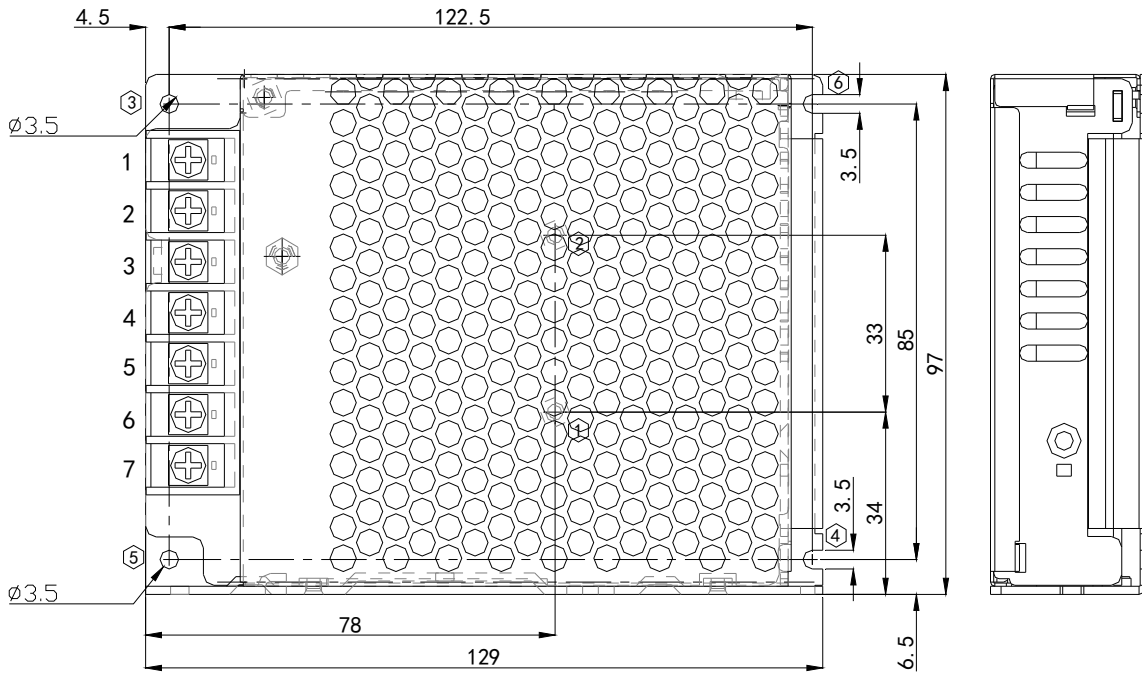
- Universal AC input: 90~ 264Vac
- Can bear 300Vac for 5s
- No load power consumption<0.5W
- High efficiency, long life and high reliability
- High efficiency up to 91%
- Output protections: OCP/OVP/SCP
- Wide operating ambient temperature (-30°C~70°C)
- Altitude up to 5000m
- All using 105°C long life electrolytic capacitors.
- 100% full load burn-in test
- 1 U low profile
- 3 years warranty

**SPECIFICATION**

| MODEL                    |   | LPD-100-5   | LPD-100-12 | LPD-100-15  | LPD-100-24 | LPD-100-36 | LPD-100-48 |  |
|--------------------------|---|---|------------|-------------|------------|------------|------------|--|
| OUTPUT                   | DC Output   | 5V  | 12V        | 15V         | 24V        | 36V        | 48V        |  |
|                          | Rated Current   | 18A   | 8.5A       | 7A          | 4.5A       | 3A         | 2.3A       |  |
|                          | Current Range   | 0~18A   | 0~8.5A     | 0~7A        | 0~4.5A     | 0~3A       | 0~2.3A     |  |
|                          | Rated Power   | 90W   | 102W       | 105W        | 108W       | 108W       | 110.4W     |  |
|                          | Ripple and Noise (note1)  | 120 mV  | 150mV      | 150mV       | 200mV      | 200mV      | 200mV      |  |
|                          | Voltage ADJ. Range  | 4.5~5.5V  | 10.8~13.2V | 13.5~16.5V  | 21.6~26.4V | 32.4~39.6V | 43.2~52.8V |  |
|                          | Voltage Accuracy  | ±30%  | ±1.0%      |             |            |            |            |  |
|                          | Line Regulation   | ±0.5%   |            |             |            |            |            |  |
|                          | Load Regulation   | ±1.0%   |            |             |            |            |            |  |
|                          | Set-up Time   | ≤500mS (230Vac/115Vac, Full load)   |            |             |            |            |            |  |
|                          | Hold up Time  | ≥20mS(230Vac, Full load) ≥10mS(115Vac, Full load)                                     |            |             |            |            |            |  |
|                          | Temperature Coefficient   | ±0.03%/°C   |            |             |            |            |            |  |
| Overshoot                | <5.0%   |   |            |             |            |            |            |  |
| INPUT                    | Voltage Range Note 3  | 90Vac~264Vac  |            |             |            |            |            |  |
|                          | Frequency Range   | 47Hz-63Hz   |            |             |            |            |            |  |
|                          | Efficiency ( Typical) 230Vac input  | 86%   | 87%        | 88 %        | 90%        | 90.5%      | 91%        |  |
|                          | AC Current (max.)   | <1.9A@115Vac <1.2A@230Vac   |            |             |            |            |            |  |
|                          | Inrush Current (Typical)  | <65A@230Vac Cold start  |            |             |            |            |            |  |
| PROTECTION               | Over Power  | 110%~180% rated power, hiccup mode, auto recovery                                     |            |             |            |            |            |  |
|                          | Over Current  | 110%~160% of rated current, hiccup mode, auto recovery                                |            |             |            |            |            |  |
|                          | Over Voltage  | 5.75~6.9V   | 13.8~16.2V | 18.75~21.75 | 28.8~33.6V | 41.4~48.6V | 55.2~64.8V |  |
|                          |   | Protection type: Constant voltage, auto recovery                                      |            |             |            |            |            |  |
|                          | Shorted Circuit   | Long-term mode, auto recovery   |            |             |            |            |            |  |
| ENVIRONMENT              | Operating amb. Temp. & Hum.   | -30°C~70°C; 20%~90%RH No condensing (refer to the derating curve)                     |            |             |            |            |            |  |
|                          | Storage Temp. & Hum.  | -40°C~85°C; 10%~95%RH No condensing   |            |             |            |            |            |  |
| SAFETY & EMC<br>(Note 4) | Safety Standards  | UL62368-1, IEC/EN62368-1  |            |             |            |            |            |  |
|                          | Withstand Voltage   | Primary-Secondary:3.0KVac/10mA.; Primary-PE:1.5KVac/10mA; Secondary-PE:0.5KVdc/10mA . |            |             |            |            |            |  |
|                          | Leakage Current   | Input—output:<0.25mA Input—PE:<0.75mA (@240Vac/63Hz)                                  |            |             |            |            |            |  |
|                          | Isolation Resistance  | 100M ohms   |            |             |            |            |            |  |
|                          | EMI Conduction&Radiation  | Compliance to EN55032 Class B   |            |             |            |            |            |  |
|                          | Harmonic Current  | Compliance to EN61000-3-2, CLASS A  |            |             |            |            |            |  |
|                          | EMS Immunity  | Compliance to EN61000-4-2,3,4,6,8,11  |            |             |            |            |            |  |
| OTHERS                   | MTBF (MIL-HDBK-217F)  | More than 200,000Hrs (25°C, Full load)  |            |             |            |            |            |  |
|                          | Dimension (L*W*H)   | 129*97*30mm   |            |             |            |            |            |  |
|                          | Packing   | 30pcs/CTN   |            |             |            |            |            |  |
|                          | Cooling method  | Cooling by free air flow  |            |             |            |            |            |  |
| NOTE                     | <ol style="list-style-type: none"> <li>1. All parameters NOT specially mentioned are measured at rated input, rated load and 25°C of ambient temperature.</li> <li>2. Measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1 uF &amp; 47uF parallel capacitor.</li> <li>3. The power supply is considered as a component which will be installed into a final equipment. The final equipment must be re-confirmed that it still meets EMC directives. For guidance on how to perform these EMC tests, please refer to "EMI testing of component power supplies" on <a href="http://www.powerld.com.cn">http://www.powerld.com.cn</a>.</li> </ol> |   |            |             |            |            |            |  |

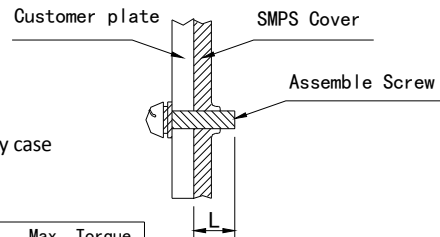
**Mechanical Specification**

Unit: mm



| Mounting Position | Mounting Type    | Mounting Position No. | Screw Type | Lmax  | Mounting Torque (max) |
|-------------------|------------------|-----------------------|------------|-------|-----------------------|
| Bottom Mounting   | Fixing by screws | ①—②                   | M3         | 4.0mm | 6.5Kgf.cm (max)       |
|                   |                  | ③—④                   | M3         | 4.0mm |                       |
|                   |                  | ⑤—⑥                   | M3         | 4.0mm |                       |
| Side Mounting     | Fixing by screws | ⑦—⑧                   | M3         | 4.0mm | 6.5Kgf.cm (max)       |
|                   |                  | ⑨—⑩                   | M3         | 4.0mm |                       |

- 1, Dimensional Unit: mm
- 2, Unmarked Tolerance is GB/T 1804-m
- 3, Choose the best installation method.



Remarks: 1. For safety purpose, the length of screw inside the power supply case shall comply with the above table (refer the right drawing)

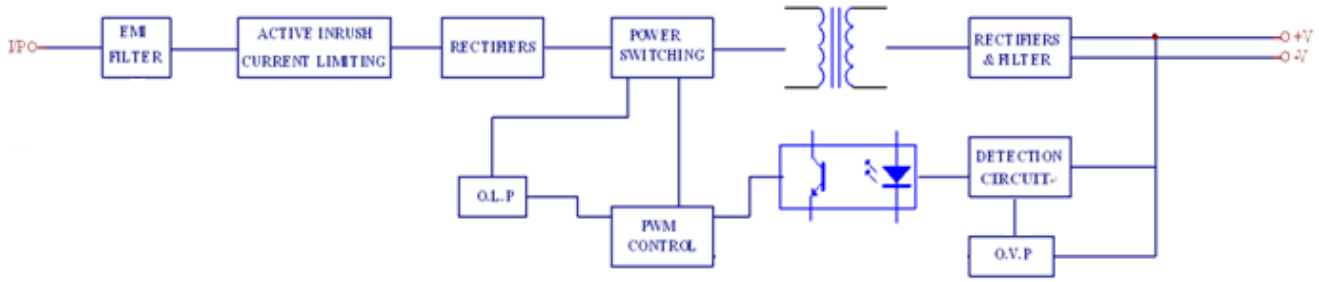
**1, Instruction of the AC Input Connectors**

| Part number | Function | Connector         | Requirement for Cables | Max. Torque    |
|-------------|----------|-------------------|------------------------|----------------|
| 1           | AC (L)   | 95 Terminal Block | 22-12AWG               | 12Kgf.cm (max) |
| 2           | AC (N)   |                   |                        |                |
| 3           | ⊖        |                   |                        |                |

**2, Instruction of the DC Output Connectors**

| Part number | Function | Connector         | Requirement for Cables | Max. Torque    |
|-------------|----------|-------------------|------------------------|----------------|
| 4/5         | V-       | 95 Terminal Block | 22-12AWG               | 12Kgf.cm (max) |
| 6/7         | V+       |                   |                        |                |

■ Block Diagram



■ Derating Curve

