



### ■ Features:

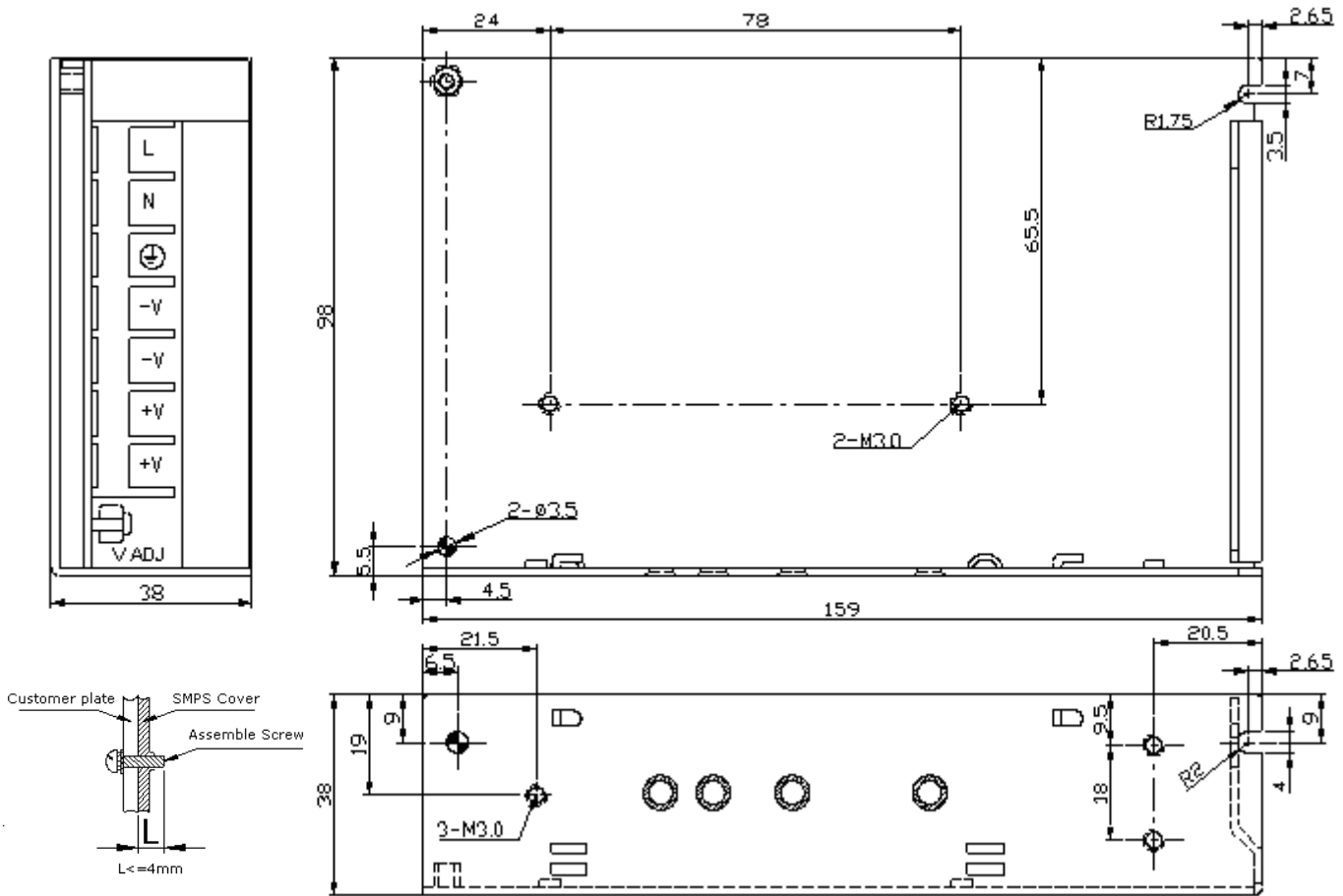
- Universal AC input/ Full range
- High Efficiency, and High reliability
- Output protections: OLP/OVP/SCP
- Wide operating ambient temperature (-20°C ~70°C)
- All using 105°C long life electrolytic capacitors.
- 100% full load burn-in test
- 3 years warranty

### SPECIFICATION

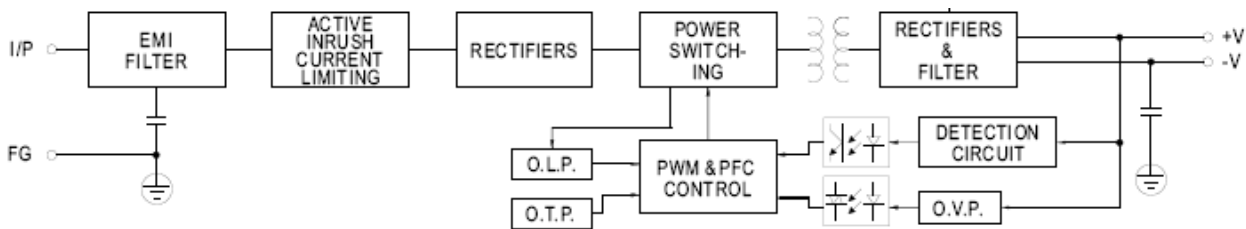
| MODEL                    |   | PD-100-5  | PD-100-12 | PD-100-15  | PD-100-24  | PD-100-48  |         |
|--------------------------|---|---|-----------|------------|------------|------------|---------|
| OUTPUT                   | DC Output   | 5.0V  | 12.0V     | 15.0V      | 24.0V      | 48.V       |         |
|                          | Rated Current   | 16A   | 8.5A      | 7A         | 4.5 A      | 2.3A       |         |
|                          | Current Range   | 0~16A   | 0~8.5A    | 0~7.0A     | 0~4.5A     | 0~2.3A     |         |
|                          | Ripple and Noise  | 0~70°C  | <80mV     | <100mV     | <100mV     | <120mV     | <200mV  |
|                          |   | Note 2<br>-20~0°C   | <100mV    | <120mV     | <120mV     | <120mV     | <200 mV |
|                          | Voltage ADJ. Range  | 4.7~5.6V  | 11~13V    | 13.7~16.3V | 22.4~27.3V | 44.4~52.2V |         |
|                          | Voltage Accuracy  | ±2.0%   | ±1.0%     | ±1.0%      | ±1.0%      | ±1.0%      |         |
|                          | Line Regulation   | ±0.5%   | ±0.5%     | ±0.5%      | ±0.5%      | ±0.5%      |         |
|                          | Load Regulation   | ±1.0%   | ±1.0%     | ±1.0%      | ±1.0%      | ±1.0%      |         |
|                          | Set-up Time   | <2.0S (115Vac input, Full load); <1.0S (230Vac input, Full load)                          |           |            |            |            |         |
|                          | Hold up Time  | >10mS(115Vac input, Full load); >20mS(230Vac input, Full load)                            |           |            |            |            |         |
|                          | Temperature Coefficient   | ±0.03%/°C   |           |            |            |            |         |
| Overshoot and Undershoot | <5.0%   |   |           |            |            |            |         |
| INPUT                    | Voltage Range   | 90Vac~264Vac,127~370Vdc   |           |            |            |            |         |
|                          | Frequency Range   | 47Hz-63Hz   |           |            |            |            |         |
|                          | Efficiency<br>( Typical)  | 115Vac input  | 80%       | 80%        | 83%        | 85%        | 83%     |
|                          |   | 230Vac input  | 80%       | 81%        | 84%        | 85%        | 84%     |
|                          | AC Current (max.)   | <2.5A   |           |            |            |            |         |
|                          | Inrush Current (Typical)  | 20A@115Vac 40A@230Vac Cold start  |           |            |            |            |         |
| Leakage Current          | <0.4mA@115Vac <0.75mA@230Vac  |   |           |            |            |            |         |
| PROTECTION               | Over Load   | 105%~150% of rated output current, hiccup mode, auto recovery                             |           |            |            |            |         |
|                          | Over Voltage  | 110%~150% of rated output voltage, shut down  |           |            |            |            |         |
|                          | Short Circuit   | Long-term mode, auto recovery   |           |            |            |            |         |
| ENVIRONMENT              | Operating amb. Temp. & Hum.   | -20°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 3) | Safety Standards  | UL60950-1; EN60950-1: 2006  |           |            |            |            |         |
|                          | Withstand Voltage   | Primary-Secondary:3.0KVac; ≤10mA .Primary-PG:1.5KVac; ≤10mA. Secondary-PG:0.5KVDC; ≤10mA. |           |            |            |            |         |
|                          | Isolation Resistance  | ≥100M ohms  |           |            |            |            |         |
|                          | EMI Conduction&Radiation  | Compliance to EN55022(CISPR22)ClassB  |           |            |            |            |         |
|                          | Harmonic Current  | Compliance to EN61000-3-2,-3  |           |            |            |            |         |
|                          | EMS Immunity  | Compliance to EN61000-4-2,3,4,5,6,8,11;ENV50204,light industry level,criteriaA            |           |            |            |            |         |
| OTHERS                   | MTBF (MIL-HDBK-217F)  | More than 200,000Hrs (25°C, Full load)  |           |            |            |            |         |
|                          | Dimension (L*W*H)   | 160×98×38mm   |           |            |            |            |         |
|                          | Packing   | 20PCS/CTN, 13.6KGS, 0.04CBM   |           |            |            |            |         |
|                          | Cooling method  | Cooling by free air convection  |           |            |            |            |         |
| NOTE                     | <ol style="list-style-type: none"> <li>1. All parameters NOT specially mentioned are measured at 230Vac 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 SPS is considered a component which will be installed into final equipment. The equipment must be re-confirmed that it still meets EMC directives.</li> <li>4. We offer accessories for Din-35 rail bar. Please contact sales staff for details.</li> </ol> |   |           |            |            |            |         |

#### Mechanical Specification

Unit: mm



#### Block Diagram



#### Derating Curve

