

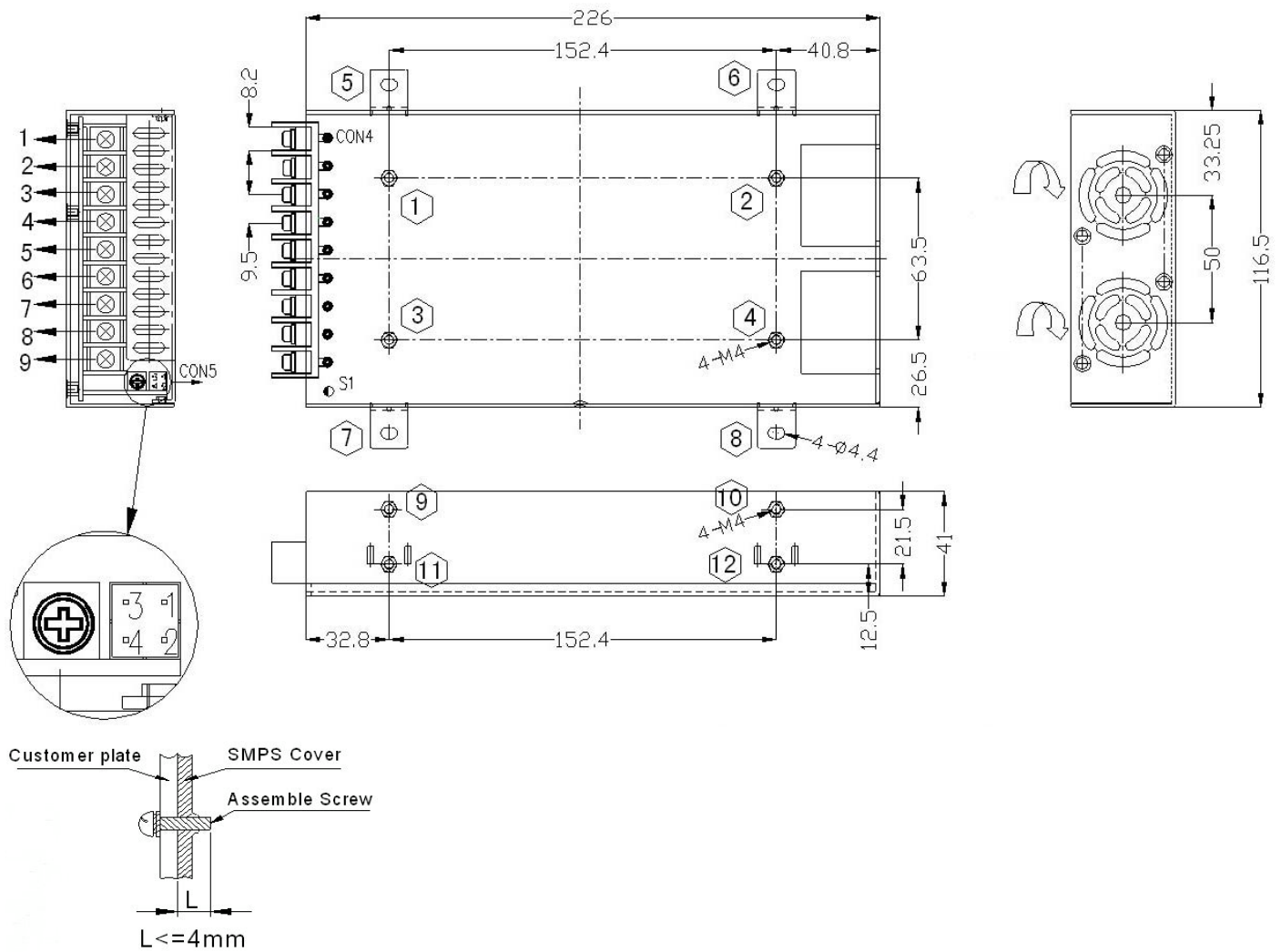
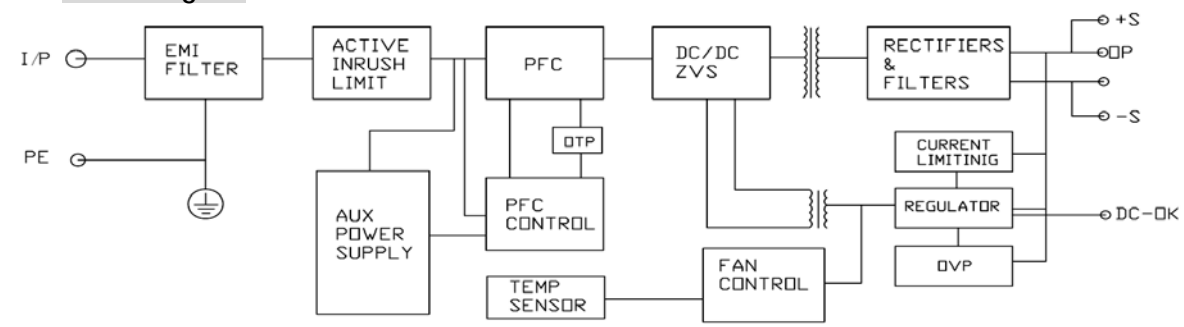

**■ Features:**

- Universal AC input/ Full range(90~264Vac)
- Built-in active PFC function, PF>0.96
- Using ZVS technology to reduce power dissipation
- Output protection: OVP/OLP/SCP/OPP/OTP
- Built in Fan speed control
- Built in AC inrush current limiting circuit(<30A)
- Build in constant current limiting circuit
- Built in Remote Sense Function
- Build in DC OK signal
- Wide operating ambient temperature (-20℃~50℃)
- 1 U low profile,41mm
- PCB soldering side with conformal coating
- 2 years warranty

|                                     |                             |   |                  |  |
|-------------------------------------|-----------------------------|---|------------------|--|
| <b>MODEL</b>                        |                             | PDF-1500-48-1U  |                  |  |
| <b>OUTPUT</b>                       | DC Output                   | 48V   |                  |  |
|                                     | Rated Current (90~176Vac)   | 15.625A   |                  |  |
|                                     | Rated Current (176~264Vac)  | 31.25A  |                  |  |
|                                     | Ripple and Noise            | 0~50C   | ≤200mV           |  |
|                                     |                             | Note 2<br>-20C  | ≤200mV           |  |
|                                     | Voltage ADJ. Range          | 48±5%V  |                  |  |
|                                     | Voltage Accuracy            | ±2%   |                  |  |
|                                     | Line Regulation             | ±0.5%   |                  |  |
|                                     | Load Regulation             | ±2%   |                  |  |
|                                     | Set-up Time                 | ≤8S (220Vac input, Full load)   |                  |  |
|                                     | Hold up Time                | ≥5mS (220Vac input, Full load)  |                  |  |
|                                     | Temperature Coefficient     | ±0.03%/°C   |                  |  |
|                                     | Overshoot and Undershoot    | <±2400mV  |                  |  |
| <b>INPUT</b>                        | Voltage Range               | 90Vac~264Vac  |                  |  |
|                                     | Frequency Range             | 47Hz~63Hz   |                  |  |
|                                     | Power Factor(Typical)       | >0.99/220VAC  | Full Load        |  |
|                                     | Efficiency ( Typical)       | 90%   |                  |  |
|                                     | AC Current (max.)           | ≤12A  |                  |  |
|                                     | Inrush Current (Typical)    | <30A @220Vac Cold start   |                  |  |
|                                     | Leakage Current             | Input—output: ≤0.25mA   | Input—PG: ≤3.5mA |  |
| <b>PROTECTION</b>                   | Over Load                   | 31~38A, constant current, auto recovery   |                  |  |
|                                     | Over Power                  | 1600~1700W, constant current, auto recovery   |                  |  |
|                                     | Over Temperature            | 115°C±5°C(detect on Mosfet temperature);shut down,auto recovery after the temperature goes down to 75°C |                  |  |
|                                     | Over Voltage                | 60~63V, constant voltage  |                  |  |
|                                     | Short Circuit               | Long-term mode, constant current, auto recovery   |                  |  |
| <b>ENVIRONMENT</b>                  | Operating amb. Temp. & Hum. | -20℃~50℃; 20%~90%RH No condensing (refer to derating curve)   |                  |  |
|                                     | Storage Temp. & Hum.        | -40℃~85℃; 10%~95%RH No condensing   |                  |  |
| <b>SAFETY &amp; EMC</b><br>(Note 3) | Safety Standards            | IEC60950/ UL60950 ; EN60950-1:2006  |                  |  |
|                                     | Withstand Voltage           | Primary-Secondary:3.0KVdc; ≤10mA .Primary-PG:1.5KVdc; ≤10mA. Secondary-PG:0.5KVdc;≤10mA.                |                  |  |
|                                     | Isolation Resistance        | 10M ohms  |                  |  |
|                                     | EMI Conduction&Radiation    | Compliance to EN55022, FCC PART 15 Class A  |                  |  |
|                                     | Harmonic Current            | Compliance to EN61000-3-2,Class D   |                  |  |
|                                     | EMS Immunity                | Compliance to EN61000-4-2,3,4,5,6,8,11; heavy industry level  |                  |  |
| <b>OTHERS</b>                       | MTBF (MIL-HDBK-217F)        | More than 200,000Hrs (25℃, Full load)   |                  |  |
|                                     | Dimension (L*W*H)           | 226×116.5×41mm  |                  |  |
|                                     | DC OK signal                | 4~6V  |                  |  |
|                                     | Packing                     | 12PCS/CTN, 17.5Kgs, 0.04CBM   |                  |  |
|                                     | Cooling method              | Forced air cooling (Built-in fan,the fan speed is controlled by load and internal temp.)                |                  |  |

**NOTE**

1. All parameters NOT specially mentioned are measured at rated input, rated load and 25°C of ambient temperature.
2. Measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1 uF & 47uF parallel capacitor.
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 <http://www.powerld.com>.

**■ Mechanical Specification** Unit:mm tolerance:±1mm

**■ Block Diagram**


■ Derating curve

