



## GDS-PS15012-20 POWER SUPPLY

THIS SPECIFICATION IS ADAPTED TO THE GDS-PS15012-20 MODELS OF SWITCHING POWER SUPPLY.

### INPUT CHARACTERISTICS:

- Input Voltage : 200Vac~240Vac
- Input Frequency : 50/60Hz.
- Input Current : 2.0Amps max at any input voltage
- Inrush Current : 80Amps Max. Cold start at 240Vac input, with rated load and 25°C ambient.
- AC /Ac Leakage Current : 3.5mA Max. At 240Vac input.

### OUTPUT CHARACTERISTICS:

- Power output

| Voltage | Min. Load | Rated. Load | Peak@10mS | Output power |
|---------|-----------|-------------|-----------|--------------|
| 12VDC   | 0A        | 6.25A       | 180W      | 150W         |

- Combined Load/Line Regulation

| Voltage | Min. Load | Rated. Load | Line Regulation | Load Regulation |
|---------|-----------|-------------|-----------------|-----------------|
| 12VDC   | 0A        | 6.25A       | ±3%             | ±5%             |

- Ripple and Noise : Under nominal voltage and nominal load, the ripple and noise are as follows when measure with Max. Bandwidth of 20MHz and Parallel 47uF/0.1uF, crossed connected at testing point.

| Voltage   | Ripple and noise |
|-----------|------------------|
| 12VDC max | 200mV p-p        |

- Turn on delay time : 2 Second Max. at 220Vac input and output Max load.
- Rise time : 400 ms Max at 220Vac input and output Max load
- Efficiency : 87%Min, At220Vac input voltage and full load calculation efficiency.
- Overshoot : 10% Max. When power supply at turn or turn off.

### PROTECTION FUNCTION:

- Short circuit protection: The power supply will be auto recovered when short circuit faults remove.
- Over current Protection: The power supply will be auto recovered when over current faults remove.
- Over voltage Protection: The Power supply will lock when over voltage, must close and restart AC Source.

### ENVIRONMENTAL REQUIREMET:

- Operating Temperature: -20°C ~ 40°C, Full load, Normal operation.
- Storage Temperature : -20°C ~ 80°C
- Storage Temperature : -20°C~80°C with package
- Relative Humidity : 5% (0°C) ~90% (40°C) RH, 72Hrs, Full load, Normal operating.
- Vibration : Operating: IEC 721-3-3 3M3 5~9Hz, A=1.5mm (9~200Hz, Acceleration 5m/S<sup>2</sup>)

- Transportation : IEC 721-3-2 2M2, 5-9Hz, A=3.5mm, 9~200Hz, Acceleration=5m/S<sup>2</sup>, 200~500Hz Acceleration=15m/S<sup>2</sup>
- Axes, 10 cycles per axis. No permanent damage may occur during testing. The SAMPLE has to restore to its original situation after power off/on.
- Dropping Packed : Desktop instrument for testing 600mm /-10mm, wooden floors.

### SAFETY AND EMI REQUIREMENT:

- SAFETY: Design by IEC60950-1 standard.
- DIELECTRIC STRENGTH Hi-Pot :  
Primary to secondary: 1500Vac/10mA/60S for type test.  
Primary to case: 1200Vac/10mA/60S for type test.  
Secondary to case: 300Vac/10mA/60S for type test.  
Insulation resistance:  
Primary to secondary: 10MΩ min at 500V DC.
- EMI STANDARD  
Designed according to the following standards  
<1>.FCC class B rules  
<2>.EN55022 class B rules  
<3>.GB9254-1998, GB17625.1-2003

### MECHANICAL REQUIREMENT:

- Product size: 269×53×52.8mm,  
Net weight: 340g

