



GDS-PS30012-20 POWER SUPPLY

DESCRIPTION: THIS SPECIFICATION IS ADAPTED TO THE GDS-PS30012-20 MODELS OF SWITCHING POWER SUPPLY.

INPUT CHARACTERISTICS:

- Input Voltage : 200Vac~240Vac
- Input Frequency : 50/60Hz.
- Input Current : 3.0Amps 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
12DC	0A	12.5A	365W	300W

- Combined Load/Line Regulation

Voltage	Min. Load	Rated. Load	Line Regulation	Load Regulation
12DC	0A	12.5A	±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
12DC max	300mV 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 : 86%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℃ ~ 40℃, Full load, Normal operation.
- Storage Temperature : -20℃ ~ 80℃
- Storage Temperature : -20℃~80℃ with package
- Relative Humidity : 5% (0℃) ~90% (40℃) RH, 72Hrs, Full load, Normal operating.
- Vibration : Operating: IEC 721-3-3 3M3 5~9Hz, A=1.5mm (9~200Hz, Acceleration 5m/S²)

- Transportation : IEC 721-3-2 2M2, 5-9Hz, A=3.5mm
9~200Hz, Acceleration=5m/S², 200~500Hz Acceleration=15m/S²
- 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: 348×54.5×23mm,
Net weight: 340g

