



GDS-PS40012-62 RAIN PROOF POWER SUPPLY

DESCRIPTION: THIS SPECIFICATION IS ADAPTED TO THE GDS-PS40012-62 MODELS OF SWITCHING POWER SUPPLY.

INPUT CHARACTERISTICS:

- Input Voltage : 180Vac~264Vac
- Input Frequency : 50/60Hz.
- Input Current : 4.5A. 4.5 Amps max at any input voltage and rated, DC output rated load.
- Inrush Current : 25°C , 240Vac 80A. 80Amps Max. Cold start at 240Vac input, with rated load and 25°C ambient.
- AC /Ac Leakage Current : 240Vac 3.5mA. 3.5mA Max. At 240Vac input.

OUTPUT CHARACTERISTICS:

- Power output

Voltage	Min. Load	Rated. Load	Peak@10mS	Output power
12VDC	0A	33.0A	480W	400W

- Combined Load/Line Regulation

Voltage	Min. Load	Rated. Load	Line Regulation	Load Regulation
12VDC	0A	33.0A	±3%	±5%

- Ripple and Noise : 20MHz 47uF 0.1uF
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 (Max.) 12VDC 300mV p-p
- Turn on delay time : 220Vac 2S. 2Second Max.at 220Vac input and output Max. Load.
- Rise time : 220Vac 400 ms. 400 ms Max.at 220Vac input and output Max load.
- Efficiency : 220Vac 86% Min,
At 220Vac input voltage and full load calculation efficiency.
- Overshoot : 10% Max. When power supply at turn or turn off.

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°cto 40 °c , Full load, Normal operation.
- Storage Temperature : 20°c to 80 °c/With package
- Relative Humidity : 5%(0 °c)~90%(40 °c),72 5%(0 °c)~90%(40 °c)RH,72Hrs,Full load, Normal operating.
- Vibration : 5.4.1 Operating: IEC 721-3-3 3M3 5~9Hz, A=1.5mm (9~200Hz,Acceleration 5m/S2) 5.4.2

- Transportation : IEC 721-3-2 2M2
5-9Hz, A=3.5mm
9~200Hz Acceleration=5m/S²
200~500Hz, Acceleration=15m/S² 5.4.3 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 : 600mm+/-10mm,
Desktop instrument for testing
600mm /-10mm, wooden floors.

SAFETY AND EMI REQUIREMENT:

- IEC60950-1 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. 6.3
EMI /EMI STANDARD

Designed according to the following standards

- <1>.FCC class B rules
- <2>.EN55022 class B rules
- <3>.GB9254-1998, GB17625.1-2003

