



Brief Information

300W

Waterproof Power Supply

Constant voltage design

Model GDS-PS30024-67

Input 200Vac~240Vac 50/60Hz

Output 24VDC@12.5A

1、 DESCRIPTION:

This specification is adapted to the GDS-30024-67 models of switching power supply.

2、 INPUT CHARACTERISTICS:

2.1 Input Voltage: 200Vac~240Vac

2.2 Input Frequency: 50/60Hz.

2.3 Input Current: 3.0Amps max at any input voltage

2.4 Inrush Current:

60Amps Max. Cold start at 240Vac input, with rated load and 25°C ambient.

2.5 Ac Leakage Current: 3.5mA Max. At 240Vac input.

3、 OUTPUT CHARACTERISTICS:

3.1 Power output

Voltage	Min. Load	Rated. Load	Peak@10mS	Output power
24VDC	0A	12.5A	360W	300W

3.2 Combined Load/Line Regulation

Voltage	Min. Load	Rated. Load	Line Regulation	Load Regulation
24VDC	0A	12.5A	±3%	±5%

3.3 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
24VDC max	300mV p-p

3.4 Turn on delay time: 2 Second Max. at 220Vac input and output Max load.

Rise time: 800 ms Max at 220Vac input and output Max load

3.5 Efficiency:

88%Min, At220Vac input voltage and full load calculation efficiency.

3.6 Overshoot: 10% Max. When power supply at turn or turn off.

4、 PROTECTION FUNCTION:

4.1 Short circuit protection:

The power supply will be auto recovered when short circuit faults remove.

4.2 Over current Protection:

The power supply will be auto recovered when over current faults remove.

4.3 Over voltage Protection:

The Power supply will hiccup protection.

5、 ENVIRONMENTAL REQUIREMET:

5.1 Operating Temperature: -20°C ~ 40 °C, Full load, Normal operation.

5.2 Storage Temperature: -20°C ~ 80 °C

5.2 Storage Temperature: -20°C~80°C with package

5.3 Relative Humidity: 5% (0°C) ~90% (40°C) RH, 72Hrs, Full load, Normal operating.

5.4 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.

5.5 Dropping Packed:

Desktop instrument for testing 600mm /-10mm, wooden floors.

6、SAFETY AND EMI REQUIREMENT:

6.1 Safety: Design by IEC60950-1 standard.

6.2 DIELECTRIC STRENGTH Hi-Pot:

Primary to secondary:1200Vac/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 STANDARD

Designed according to the following standards

<1>.FCC class B rules

<2>.EN55022 class B rules

<3>.GB9254-1998, GB17625.1-2003

※Note: Conditions to ensure product performance in line with this acknowledgment, the Company reserves the right to make changes to optimize product circuits and components.

7、MECHANICAL REQUIREMENT :

Product size: 296×72×43mm,

Net weight:1350g

