## PART NO: PSU SWMMC 48V 12.5A

**DESCRIPTION: AC/DC Switch Power** 

MODEL NO: M480120P600



# **AC/DC Switch Power Specifications**

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PSU SWMMC 48V 12.5A

## 1. (Description):

48V 12.5A

The purpose of the document is to specify the functional requirements of a 600W AC/DC Switch Power.

#### 2, INPUT CHARACTERISTICS):

2.1 (Input Voltage):

(Nominal Voltage): 176-264Vac

2.2 (Input Frequency):

(Nominal Frequency):47-63Hz

2.3(Input Current): $6.5A_{\circ}$ 

6.5Arms max At any input voltage and rated, DC output rated load.

2.4(Inrush Current):

25℃, 50A。

50Amps Max. Cold start at 240Vac input, with rated load and 25 °C ambient.

2.5 AC (Ac Leakage Current):

220Vac, 0.25mA.

0.25mA Max At 220Vac input.

#### 3、(OUTPUT CHARACTERISTICS):

3.1 (Power Output);

Voltage	Min. Load	Max. Load	Peak	Output Power
DC48V	0A	12.5A	15A	600W

3.2 (Combined Load/Line Regulation):

<u>Voltage</u>	Min. Voltage	Max. Voltage	Line Regulation	Load Regulation
+48Vdc	45V	50V	±5%	±5%

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### 3.3 (Ripple And Noise):

47uF 0.1uF

The ripple and noise are as follows when measure with Max. Bandwidth of 20MHz and Parallel 47uF/0.1uF, crossed connected at testing point.

## 3.4 (Turn On Delay Time):

115 Vac 2S.

2 second Max. At 115Vac input and output Max. Load.

3.5 (Rise Time):

115Vac 40mS.

40mS Max. At 115Vac input and output Max. Load.

3.6 (Hold Up Time):

115V 5mS.

5mS Min. At 115Vac input and output Max. Load.

3.7 (Efficiency):

100Vac, >80%.

>80%.At 100Vac input and output Max. Load.

240 Vac, > 85%

>85%.At 240Vac input and output Max. Load.

3.8(Overshoot): 15% •

15% Max. When power supply at turn on or turn off.

#### 4、 (PROTECTION REQUIREMENT):

4.1 Short Circuit Protection:

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

4.2 (Over Voltage Protection)

The power supply will not be auto recovered when faults remove.

#### **5.** (ENVIRONMENTAL REQUIREMET):

- 5.1 (Operating Temperature):
  - $0^{\circ}$ C ~ -40 (Full load Normal operation).
  - 0°Cto40°C,Full load Normal operation.
- 5.2 (Storage Temperature):-20℃to75℃,带外壳(With package).
- 5.3 (Relative Humidity):
  - $5\%(0^{\circ}\text{C}) \sim 90\%(40^{\circ}\text{C})$
  - $5\%(0^{\circ}C) \sim 90\%(40^{\circ}C)$
- 5.4 (Vibration):
  - 1, Operating: IEC 721-3-3 3M3
    - $5\sim$ 9Hz,A=1.5mm (9 $\sim$ 200Hz,Acceleration 5m/s<sup>2</sup>)
  - 2、(Transportation): IEC 721-3-2 2M2
    - 5-9Hz, A=3.5mm
    - $9\sim200$ Hz, Acceleration=5m/S<sup>2</sup>
    - $200\sim500$ HZ, Acceleration=15m/S $^2$
  - 3、(Axes,10 cycles per axis).

No permanent damage may occur during testing.

The product has to restore its original situation after power off/on.

CUSTOMER	COMMUNICA (PTY)LTD	CUSTOMERPART	PSU SV	VMMC	48V 12.5A	
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5.5 HI POT) AC1500V 60, 1.39mA;

Input to Output AC1500V 60seconds, Leak current 1.39mA;

AC1500V 60 , 1.39mA;

Input to casing AC1500V 60seconds, Leak current 1.39mA;

AC1500V 60, 1.39mA;

Output to casing AC1500V 60seconds, Leak current 1.39mA;

#### 6、EMC(SAFETY AND EMC REQUIREMENT):

#### 7、 (MECHANICAL REQUIREMENT):

7.1(Enclosure):

: 238\*124\*65mm

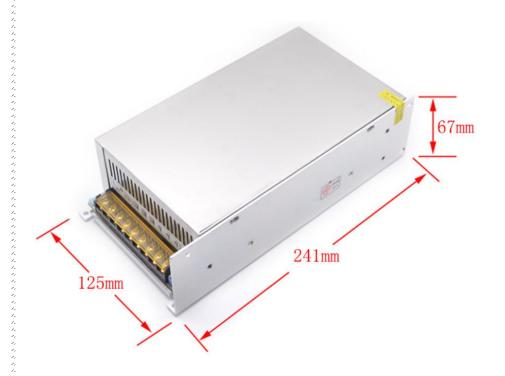
The power supply size: 241\*125\*67mm

: 1460g Weight : 1460g

: 37\*27.5\*27CM

Neutral packaging is white box packaging (color box, standard and large quantity can be customized according to customer requirements)

48V12.5A 600W IP20 LED power supply



## Material: Aluminum

Endure heat above  $105\,^{\circ}$ C

0.2-0.3mm

Thickness:0.2-0.3mm

 $3*RI \pm 0.1mm$ 

 $3*RI \pm 0.1mm$ 

2.5mm

Angle 2.5mm

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1.		COMMONICA (LLL)LLD		P30 3VVIVIIVIC 40V 12.3A	1.
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