

SPECIFICATION FOR APPROVAL

CUSTOMER: COMMUNICA

DESCRIPTION: AC/DC POWER SUPPLY

CUSTOMER PART NO: M120500P600

MODEL NO: M120500P600

PSU SWMMC 12V 50A

AC/DC Switch Power Specifications

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1、 Description):

SW.MODE PSU DC12V 50A

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): 85-130V/176-264Vac

2.2 (Input Frequency) :

Nominal Frequency) :47-63Hz

2.3 (Input Current):6A。

6 Amps max At any input voltage and rated, DC output rated load.

2.4 Inrush Current):

25°C, 240Vac 55A。

55Amps Max. Cold start at 240Vac input, with rated load and 25°C ambient.

2.5 AC (Ac Leakage Current):

240Vac 0.25mA。

0. 25mA Max At 240Vac input.

3、 OUTPUT CHARACTERISTICS):

3.1 (Power Output);

Voltage	Min. Load	Max. Load	Peak	Output Power
DC12.0V	0A	50A	55A	600W

3.2 (Combined Load/Line Regulation):

Voltage	Min. Voltage	Max. Voltage	Line Regulation	Load Regulation
+12.0Vdc	11.4V	12.6V	±5%	±5%

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3.3 (Ripple And Noise) :

20MHz, 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.

<u>Voltage</u>	<u>Ripple And Noise(Max.)</u>
+12.0Vdc	150mVp-p

3.4 (Turn On Delay Time):

115Vac 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.

240Vac, >83%。

>83%.At 240Vac input and output Max. Load.

3.8 (Overshoot):

15%。

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

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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°C ~ -40°C , (Full load Normal operation)。

0°C to 40°C , Full load Normal operation.

5.2 (Storage Temperature): -20°C to 75°C , (With package).

5.3 (Relative Humidity):

5% (0°C) ~ 90% (40°C)

5% (0°C) ~ 90% (40°C)

5.4 (Vibration):

1、 Operating: IEC 721-3-3 3M3

5~9Hz, A=1.5mm (9~200Hz, Acceleration 5m/s²)

2、 (Transportation): IEC 721-3-2 2M2

5-9Hz, A=3.5mm

9~200Hz, Acceleration=5m/S²

200~500HZ, Acceleration=15m/S²

3、 (Axes, 10 cycles per axis) .

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5.5 (Dropping)(Packed):

1 corner,3 edges, and 6 surfaces

76m Height:76cm

6、 (SAFETY AND EMC REQUIREMENT) :

7、 (MECHANICAL REQUIREMENT):

7.1 (Enclosure):

The power supply size : 240*125*65mm

12V 50A 600W IP20 Power supply picture

Material: Aluminum

0.2-0.3mm

Thickness:0.2-0.3mm

3*RI±0.1mm

3*RI±0.1mm

2.5mm

Angle 2.5mm

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