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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| CUSTOMER | COMMUNICA | CUSTOMERPART NO | M120500P600 | | | |
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| | | | FAGE | 20F7 | EDITION | A |

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):

| <u>Voltage</u> | Min. Voltage | Max. Voltage | Line Regulation | Load Regulation |
|----------------|--------------|--------------|-----------------|-----------------|
| +12.0Vdc | 11.4V | 12.6V | ±5% | ±5% |

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| | MANUFACTURER | M120500P600 | | FAGE | 30F7 | EDITION | A |

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.

3.4 (Turn On Delay Time):

115 Vac 2S.

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

3.5 (Rise Time):

115 Vac 40 mS o

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):

 $100 \text{Vac}, \ge 80\%$.

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

240 Vac, >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 outo recovered w | han shart airauit fa | ulta romov | <i>1</i> 0 | |
| The power supply will be auto recovered will 4.2 (Over Voltage Protection) | ien short cheuit ra | uits remov | <i>7</i> C. | |
| 4.2 (Over voltage reduction) | | | | |
| The power supply will not be auto recovere | d when faults remo | ove. | | |
| 5. (ENVIRONMENTAL REQUIREMET): | | | | |
| 5.1 (Operating Temperature): | | | | |
| 0°C~ -40°C, (Full load Normal operation)∘ | | | | |
| 0°Cto40°C,Full load Normal operation. | | | | |
| 5.2 (Storage Temperature):-20°C to75°C, (With p | ackage). | | | |
| 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 | | | | |
| $5\sim$ 9Hz,A=1.5mm (9 \sim 200Hz,Accelera | tion 5m/s^2) | | | |
| 2、(Transportation): IEC 721-3-2 2M2 | | | | |
| 5-9Hz, A=3.5mm | | | | |
| $9\sim200$ Hz, Acceleration= 5 m/S ² | | | | |
| 200~500HZ, Acceleration=15m/S ² | | | | |
| 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 - 0.3 mm

Thickness:0.2-0.3mm

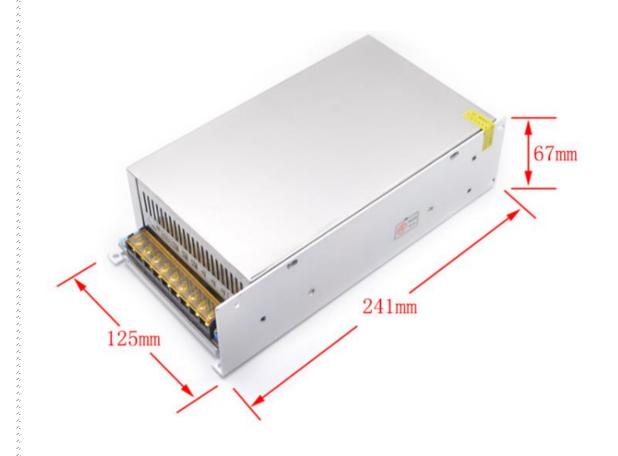
 $3*RI \pm 0.1mm$

 $3*RI\pm0.1mm$

2.5mm

Angle 2.5mm

PSU SWMMC 12V 50A



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