

External Plug In Adaptor multicomp^{PRO}



RoHS
Compliant

Scope

The purpose of the document is to specify the functional requirements of MP012108 switching power supply.

Input Characteristics

Rated Input Voltage	: 100V AC to 240V AC
Variable input voltage	: 90V—264V AC
Input Current	: 0.4A max when input rated voltage and output rated load.

Input Frequency

Rate Frequency	: 50Hz / 60Hz
Variation Frequency	: 47Hz to 63Hz
In-rush Current	: 60 Amps Max Cold start at 240V AC input, with rated load and 25°C ambient.
AC leakage Current	: 0.25mA Max .At 240V AC input

Output Characteristics

Rated Output Power	: 11W
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Combined Load/line Regulation

Voltage	: +5V
Min. Load	: 0A
Max Load	: 2.2A
Load Regulation	: 4.75V to 5.4V
Unload output voltage	: 5V to 5.4V
Efficiency	: 115V AC input, the average efficiency $\geq 79.36\%$ output rated load is 25%, 50%, 75%, 100% 4 situations of average efficiency 230V AC input, the average efficiency $\geq 79.36\%$ output rated load is 25%, 50%, 75%, 100% 4 situations of average efficiency.
Unload standby Power	: 0.1W Max

Ripple And Noise

Ripple & Noise	: Measurement is done by 20MHz bandwidth oscilloscope and the output paralleled a 0.1uF ceramic capacitor and a 47uF electrolysis capacitor. (test under the condition of rated input and rated output)
Voltage	: +5V
current	: 2200mA
Ripple And Noise(Max)	: 100m Vp-p
Turn On Delay Time	: 3 second max. at 100V AC input and output Max. Load
Rise Time	: 100ms max. at 100V AC input and output Max. Load
Hold Up Time	: 5ms min. at 100V AC input and output Max. Load.
Overshoot	: 10% Max. When power supply on or turn off.

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Protection Function

- Short circuit protection : The Power Supply will be auto recovered when short circuit faults remove.
- Over current Protection : The output shall hiccup when the over currents applied to the output trail, and shall be self-recovery when the fault condition is removed
- Over Voltage Protection : The power supply shall protection when the output over voltage. The output shall latched and shall be recovery when the fault condition is removed and power on again.

Environmental Requirements

- Operating Temperature : 0°C to +40°C, Full Load, Normal Operation.
- Storage temperature : With enclosure: -20°C to +70°C
- Relative Humidity : 5% (0°C)~90% (40°C) 72h Full Load , Normal operating.

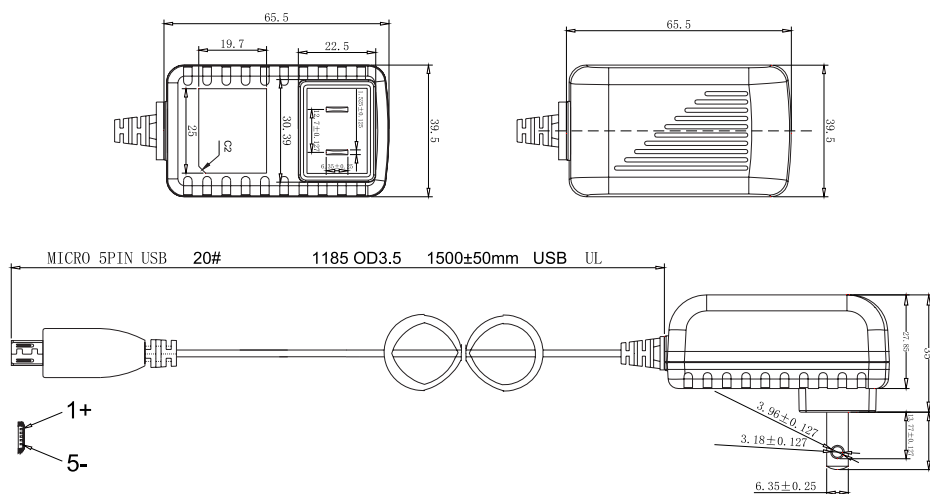
Vibration

- Operating : IEC 721-3-3 3M3 5~9Hz, A=1.5mm (9-200Hz, Acceleration 5m/s²)
- Transportation : IEC 721-3-2 2M2 5~9Hz, A=3.5mm
9~200Hz , Acceleration=5 m/s²
200~500Hz , Acceleration=5 m/s²

Axes, 10 cycles per axis : No permanent damage occur during testing.

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

Outlook Drawing Drawing (Common difference: ±0.5mm)



Dimensions : Millimetres

Part Number Table

Description	Part Number
Desk Top Adaptor, AC-DC, 11W	MP012108

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