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1. ELECTRICAL

1.1 Input Characteristics:

1.1.1 Rated Voltage

It is normal for **100Vac** to **240Vac** input AC voltage.

1.1.2 Input Voltage Range

The adaptor shall operate from **90Vac** to **264Vac**.

1.1.3 Rated Frequency

It is normal for **50Hz** or **60Hz** and single phase.

1.1.4 Frequency Range

The adaptor shall operate with an input frequency from **47Hz** to **63Hz.**

1.1.5 Steady AC Current

Maximum steady state input current is less than **0.15A rms** at 100Vac input and maximum load.

1.1.6 Inrush Current

Maximum inrush current shall be less than **30A** at 240Vac input.

1.1.7 Power Efficiency

50% Min. measured at 100- 240Vac input voltage, maximum load and include the DC cable loss.

1.2 Output Characteristics:

1.2.1 Rated Voltage

The rated output voltage is specified at **5.0V**.

1.2.2 Voltage Range

The output voltage will be performed from **4.75V to 5.25V** when the load change from **0mA** to **0.5A** steadily.

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1.2.3 Rated Power

This adaptor is capable to support **2.5Watts** continuously at all specified conditions.

1.2.4 Current

This adaptor can work from **0mA to 0.5A** and output voltage is in section 1.2.2 specified range.

1.2.5 Output Ripple and Noise(Input 100-240Vac).

Output ripple voltage is **200mV** peak to peak or less. (Ripple voltage is specified in working cycle of this supply).

Output noise voltage is **200mV** peak to peak or less. (Noise voltage is specified in the switching noise of this supply).

Measured methods:

T1. Performed by 20MHz bandwidth in oscilloscope.

T2. Applied 0.1uF ceramic capacitor and 10uF electrolytic capacitor across output connector terminals

T3. Measured at the end of DC cable.

1.2.6 Stability

The adaptor is unconditionally stable while operated within its normal operating specification.

1.2.7 Protection

1.2.7.1 Short Circuit

The adaptor is protected when short circuit happens at the output terminals and shall not result in a fire hazard, any damage to this adaptor and will be normal operation automatically while the short is removed.

1.2.7.2 Over Current Protection

The power supply shall be normally operated automatically when the over current protection is removed.

2. Environmental

2.1 Temperature

2.1.1 Operating

The adaptor is capable to operate from 0 to 40℃.

2.1.2 Non- Operating

The adaptor is capable to be stored from -40 to 80℃.

2.2 Humidity

2.2.1 Operating

The adaptor is capable to operate from 5 to 90%RH.

2.2.2 Non- Operating

The adaptor is capable to be stored from 5 to 95% RH.

2.3 Cooling

The adaptor is conventionally cooled only.

2.4 Altitude

2.4.1 Operating

The adaptor is capable to operate at 10,000 feet above sea level.

2.4.2 Non-Operating

The adaptor is capable be stored at 33,000 feet above sea level.

2.5 Vibration

2.5.1 Operating

AC input voltage: Rated voltage

DC output load: Maximum

Acceleration: 1.0G

Orientation: Three mutually perpendicular axes X, Y, Z

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Frequency: 10 to 300Hz at 0.3 decades / min.

Duration: 30 minutes per axis, 15 minutes at a constant acceleration of 2.0G for resonant frequencies.

2.5.2 Non-Operating. (Constant Vibration)

Acceleration: 3.0G

Orientation: Three mutually perpendicular axes X,Y,Z.

Frequency: 10 to 300Hz at 0.3 decades / min.

Duration: 30 minutes per axe, 15 minutes at a constant acceleration of 3.0G for resonant frequencies.

After the above testing, the adaptor has to work normally without any damage.

2.6 Drop (Non-Operating)

The adaptor is capable to survive a drop from 100cm height to rigid surface of concrete.

It shall be dropped once for each one of its six axes without any packaging.

After the completion of the drop test the adaptor has to meet with function in specifications.

No structural damage is allowed. Cosmetic damages such as small dents and scratches are acceptable.

2.7 Dielectric Withstand Voltage (HI-POT)

100% of line products of this adaptor shall be applied **3000Vac** or 4242Vdc for a minimum of 1 minute between AC input terminals and output terminals. The cut off current is specified as 10mA.

2.8 Leakage Current

The measured reading is less than **0.25mA** at 264 Vac , 50Hz.

2.9 Insulation Resistance

The resistance is more than **10M Ω** at apply 500Vdc between input terminals and case.

The resistance is more than **10M Ω** at apply 500Vdc between input terminals and output terminals.

2.1 Electromagnetic Compatibility

The adaptor shall meet the following EMC requirements:

2.10.1 Emissions : EN55022B .

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3. Mechanical

3.1 Adaptor Drawing

The extermal dimensions of adaptor is **59.3**mm(Length) x **25.0**mm(Width) x **36.0**mm(Height).

3.2 Material

The case material is PC. Class 94V-0.

3.3 Color

The color is specified in black.

3.4 Output mode

3.4.1 Output plug : **USB2.0 4Pin.**

3.4.2 Output polarity : **Pin 1 :"+", Pin 4: "-".**

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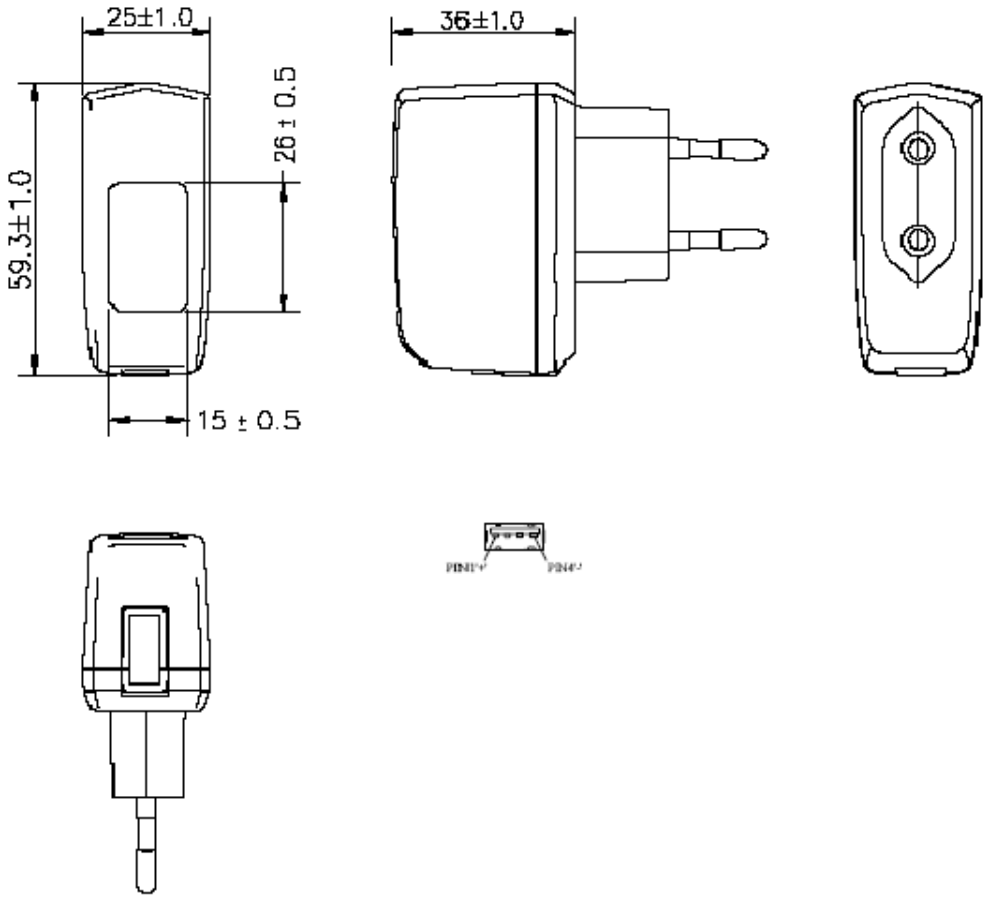
Outline Dimension (unit:mm)



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Nameplate Specification(unit:mm)

1:1

2:1

MFD: 081203(08: Year /12: Month / 03: Week)
Note: 1. Nameplate material: polyester film mapte silver
2. Characteristic: black background with silver words

We marked the 'WEEE' logo on the label based on our client's request, but we will not take any responsibility for recycling charge if necessary.

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