

SPECIFICATION

High Quality Switching Wallmount Adapter Interchangeable AC Plugs

Universal AC Input
6W 12VDC 0.5A Output



P/N: W120005GPX

****Specification Approval****

This specification (total 7 pages including cover page) is approved in it's entirety by:

Company Name

Print Name

Signature

Date



California, U.S.A
Tel: 1-408-980-9813
Fax: 1-408-980-8626
Email: infor@topmicro.com
Web: www.topmicro.com

1. Input:

- 1.1 Rated input voltage: 100-240VAC
- 1.2 Vibration input voltage range: 90-264VAC
- 1.3 Rated input frequency: 50/60Hz
- 1.4 Vibration Rate input frequency: 47/63Hz
- 1.5 AC input Rated current: 0.2A Max.@100VAC
- 1.6 AC input Max power(No load): 0.3W Max.@230VAC
- 1.7 Inrush Current: 30A Max.@100VAC cold start
60A Max.@230VAC cold start
- 1.8 Leakage current: 0.25mA Max.

2. Output

- 2.1 Rating output voltage: 12V
- 2.2 Rating output current: 0.5A
- 2.3 Min. load current 0A
- 2.4 Output no-load voltage: 12V $\pm$ 5%
- 2.5 Output load voltage: 12V $\pm$ 5%
- 2.6 Output ripple & noise: 200mV

3. General

- 3.1 Max output power: 6Watts
- 3.2 Efficiency: 72%(min.)@full load & input 230VAC, Output set to 12V/0.5A.
72%(min.)@full load & input 115VAC, Output set to 12V/0.5A.
- 3.3 Short circuit protection: Protection against short circuit for output.
The output can be shorted without damage.
- 3.4 Overshoot / Undershoot: 12V $\pm$ 10%
- 3.5 Switching Frequency: 60 KHz Typical
- 3.6 Any protect condition shall cause no damage and no component fail.
Automatic recovery when removal of protect condition.

4. Environmental:

- 4.1 Operating temperature: $0^{\circ}\text{C} \sim 40^{\circ}\text{C}$
- 4.2 Storage temperature: $-25^{\circ}\text{C} \sim 85^{\circ}\text{C}$
- 4.3 Operating relative humidity: 8% to 90%
- 4.4 Storage relative humidity: 5% to 95%

5. Application standard : meet

UL1950
EN60950
EN55022

6. EMI standard : meet Fcc class B,CE,VCCI-II

7. HI-POT test

- Primary to secondary: 4242VDC for 1minute or 4525VDC for 3sec.
- Primary to case: 4242VDC for 1minute or 4525VDC for 3sec.

8. Insulation resistance

- Input to output: $>10\text{Mohm.}@500\text{VDC}$

9. Reliability:

- 9.1 MTBF: 50K hours min.
@ full load at 25°C ambient temperature
- 9.2 Burn-in: 24hrs, $40 \pm 5^{\circ}\text{C}$ 240VAC
ON/OFF cycling full load nominal line
- 9.3 Altitude: Will operate properly at altitude between 0 to 10000ft.

10. Mechanical

- 10.1 Dimensions: Please see the mechanical dimension drawing.
- 10.2 Weight: 110.8 g

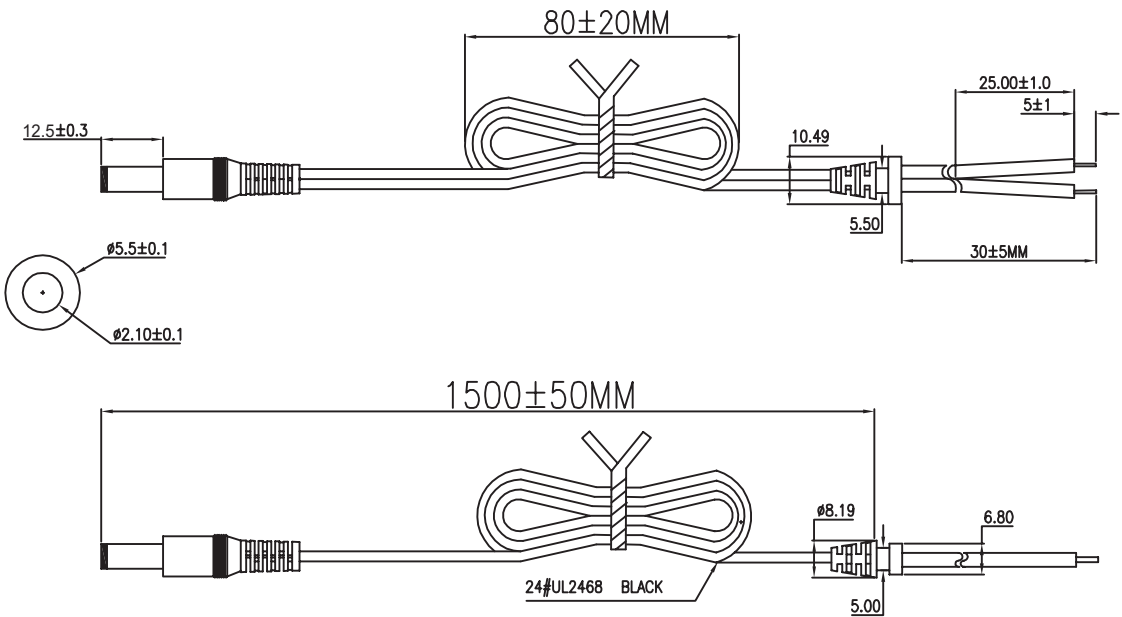
11. Mechanical

11.1 DC cord:

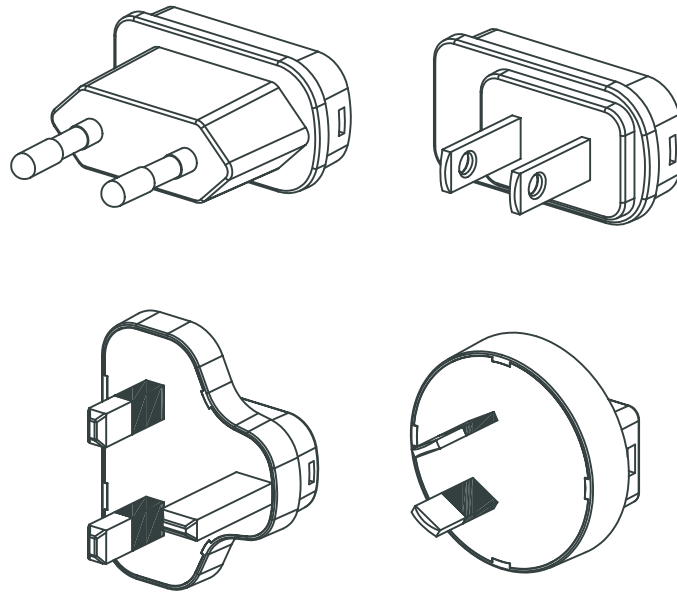
11.1.1 Bending test: Life 1000times 100% guarantee. Swings 120^b Left to right loading weight 200g, 40 cycle/minute 2400 cycles.

11.1.2 Pull test: DC cord and plug, weight 9kg for 1 minute.

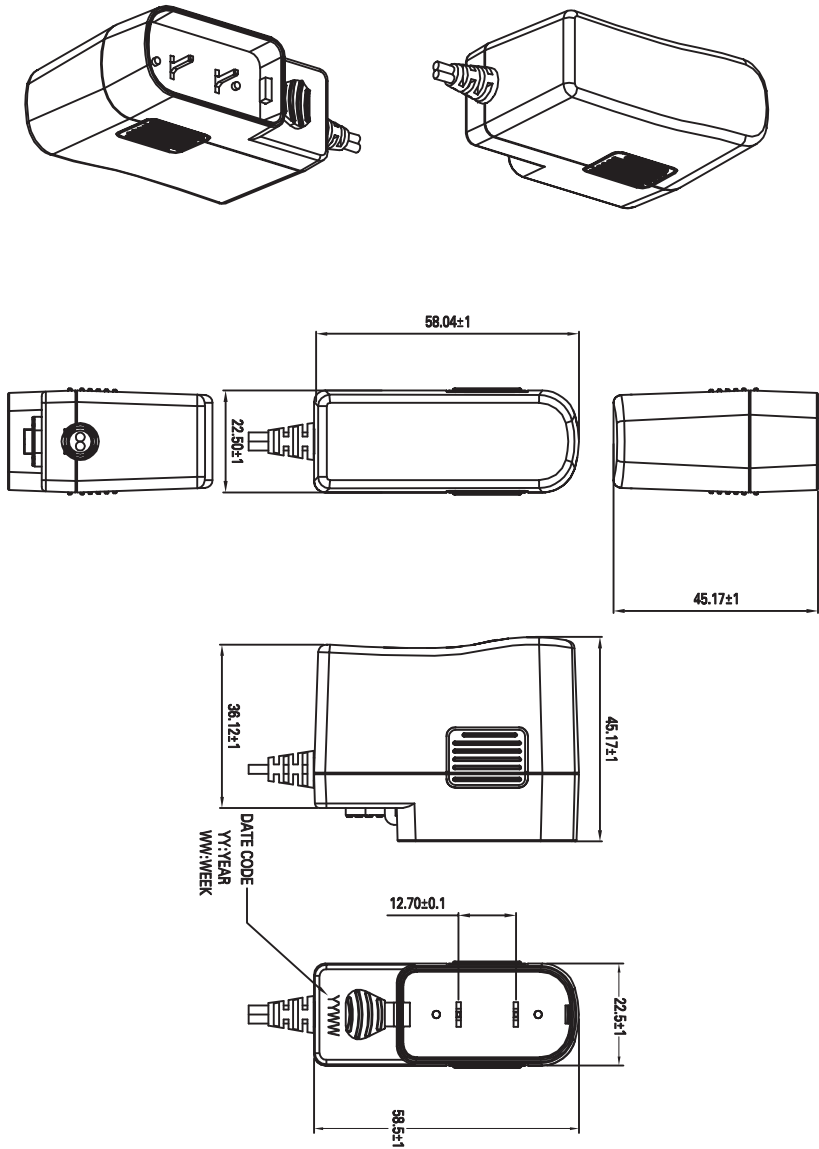
12. DC Cable & Plug



13. AC Plugs



14. Mechanical Drawing



15. Label

