

SPECIFICATION

High Quality Switching Wallmount Adapter Interchangeable AC Plugs

Universal AC Input
24W 12VDC 2.0A Output

P/N: W120020DVX

****Specification Approval****

This specification (total 8 pages including cover page) is approved in it's entirety by:

Company Name

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1. Scope

This specification defines the input, output, performance characteristics, environment, noise and safety requirements for a 24 watts switching type power adapter.

The adapter input/output are full range AC input and +12 VDC 24 watts output.

2. Input

2.1 AC Input Voltage

Minimum	Nominal	Maximum
90 VAC	100 – 240 VAC	264 VAC

2.2 AC Input Frequency

Minimum	Nominal	Maximum
47 Hz	50 / 60 Hz	63 Hz

2.3 AC Input Current

Nominal AC Input Voltage	0.8 A maximum
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2.4 AC Inrush Current
at full load, 25 degree C, cold start

Nominal AC Input Voltage	No damage shall be occurred and the input fuse shall not blow up.
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2.5 Power Consumption in Power-Saving Mode

Load	Input Condition	Input Power Requirement
0 A	230 VAC 50 Hz	0.3 W maximum

3. OUTPUT REQUIREMENT

3.1	DC Output Voltage	+12V
3.2	Minimum Load Current	0 A
3.3	Nominal Load Current	2 A
3.4	Nominal Output Power	24 W
3.5	Total Output Regulation	+/-5%
3.6	Line Regulation	+/-2%
		At nominal input voltage and full load
3.7	Ripple & Noise	300mV p-p maximum
		At 20 MHz, and output parallel with 0.1uF & 10uF capacitors to ground temperature at 25°C, at nominal input voltage
3.8	Efficiency	82.09% minimum
		At 115VAC/230VAC input voltage and 25%,50%,75%,100% load average efficiency level: V
3.9	Hold-Up Time	5mS minimum
		At nominal input AC voltage and full load
3.10	Turn-On Delay	2 Seconds maximum
3.11	Short-Circuit Protection	The adapter shall not be damaged if shorted by ground.
3.12	Over Current Protection	5A maximum with auto-recovery function
3.13	Remark	Unless otherwise specification output load must set at CC mode.

4. Mechanical Requirements

4.1 Dimensions

85 (L) * 50 (W) * 40 (H) mm

4.2 Weight

250 g

4.4 Output Plug Type

WIRE: 20AWG/2C 2468, 1500mm

PLUG: 2.1*5.5*9.5mm

5. Environmental

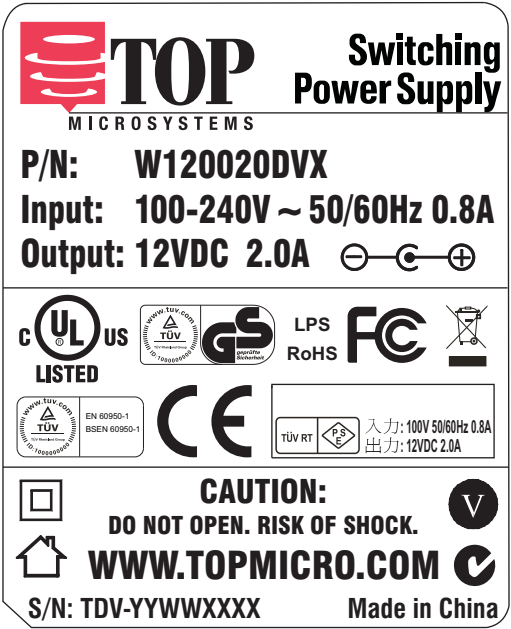
- 5.1 Cooling
- Cooling shall be with natural convection cooling
- 5.2 Operating Temperature
- 0 °C TO 40 °C
- 5.3 Storage Temperature
- 20 °C TO +60 °C
- 5.4 Operating Humidity
- 20 ~ 85 % RH. Non-condensing
- 5.5 Storage Humidity
- 5 ~ 95 % RH. Non-condensing
- 5.6 Vibration Test Requirement
- (Non-operating, with packing) Reference to IEC 68-2-6

Test conditions		Acceptance criteria
1.Frequency	5 ~ 500 Hz	Nominal functional test should be satisfied after the test.
2.Sweep	2hours. For each axis (X, Y, Z)	
3.Acceleration	0.6G (5~50 Hz, peak - peak), 1.5G (50~500 Hz, peak - peak)	
4.Displacement	0.4 mm (5~50 Hz)	

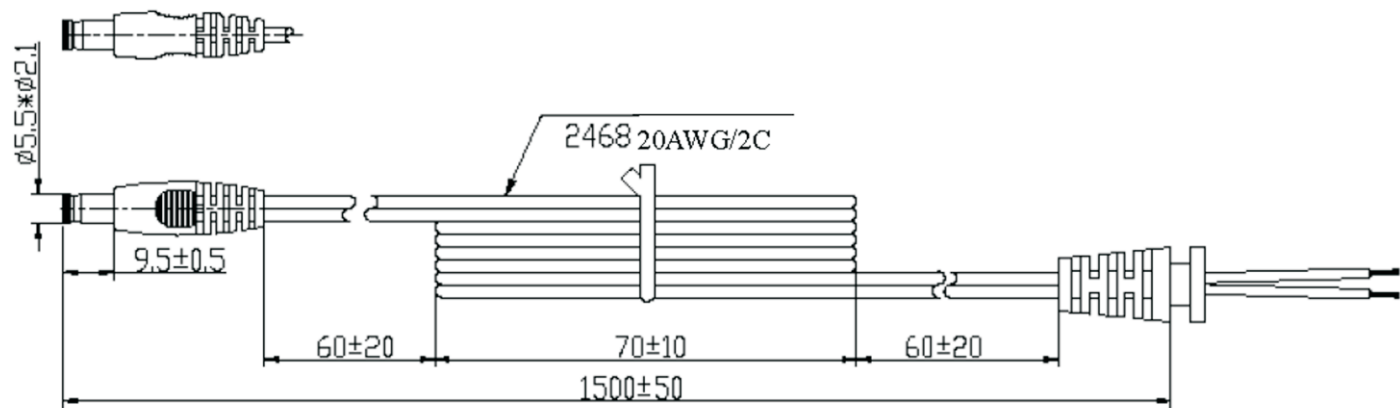
6. Safety

- 6.1 Dielectric Withstand Voltage Test (Hi-pot)
- Primary To Secondary: 3000VAC 10mA 1minute or 4242VDC 10mA 1 minute
- 6.2 Leakage Current
- 0.25mA maximum, at nominal AC input voltage and frequency
- 6.3 Safety Standards
- Designed to meet UL/C-UL (UL60950-1), TUV-GS (EN60950-1) ,
T-LICENSE (BS EN60950-1)
- 6.4 EMI Standards
- Designed to meet FCC(PART 15 Class B), CE(EN55022),

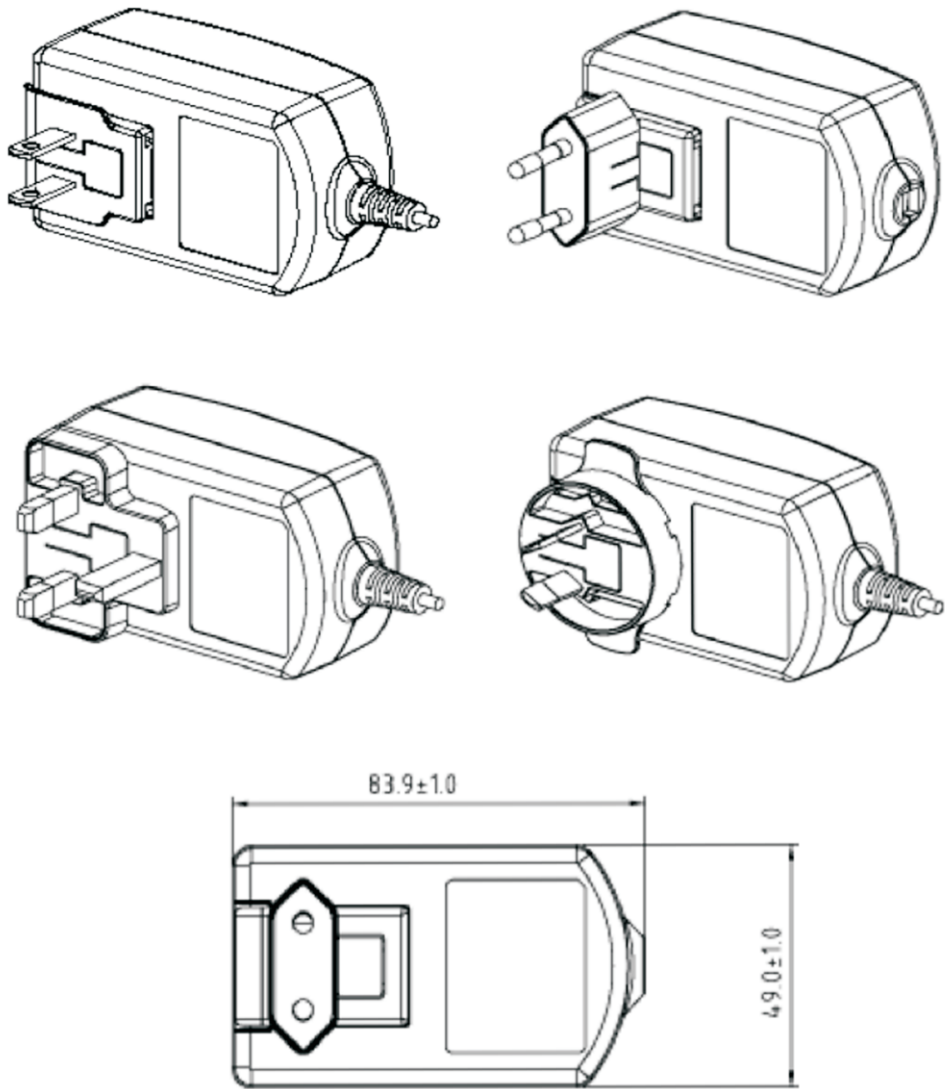
7. Label



8. DC Cable & Plug



9. Mechanical



10. Packing

