



Qixin Electronics

Xinfu Industrial Zone,
Chongqing Rd.,Fuyong, Shenzhen

12 Watt

Single Output Switching Adapter

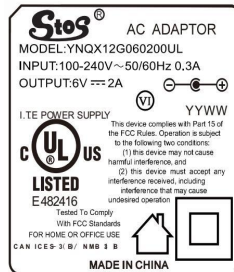
YNQX12G060200UL

General Specification

The purpose of the document is to specify the functional requirements of a 12W switching power adapter

Features

- Two Pin Wall Mount US Plug
- Wide range AC input
- Fully enclosed plastic case
- Fully regulated output
- Meet Efficiency Level VI
- High Quality



1. Input

Description	Min.	Normal	Max.	Condition
Input Voltage	90VAC	100/240VAC	264VAC	Auto Range;50/60HZ
Input Current	0.3Amps Max. At any input voltage and rated. DC output rated load.			
Input Frequency	47Hz	50/60Hz	63Hz	
Inrush Current	No damage shall be occurred and the input fuse shall not be blown up. Cold start at 240VAC input, with rated load and 25°C ambient			
AC Leakage Current	0.25mA Max. at 240VAC input			

2. Output

Model No.	Voltage	Min. Load	Rated Load	Line Regulation	Ripple & Noise
				±2%	
YNQX12G060200UL	6V	0.01A	2A	Load Regulation	150mV p-p
				±5%	

Note: At 115/230VAC 25°C input and output Min. and Max. Load, the ripple and noise are as above when measure with Max. Bandwidth of 20 MHz and parallel 47uF/0.1uF, crossed connected at testing point.

- 2.1) Turn on delay time: 3Second Max. at 115VAC input and output Max. load.
- 2.2) Rise time: 40mS Max. At 115VAC input and output Max. load.
- 2.3) Hold up time: 5mS Min. at 115VAC input and output Max. load
- 2.4) Overshoot: 15% Max. When power supply at turn on or turn off.
- 2.5) Efficiency: 78.70% Min. At 115/230VAC input voltage, 1/4, 1/2, 3/4 and full load calculation average efficiency. Adapter meets efficiency level VI



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3. Protection

3.1) Short Circuit Protecion:

The power supply will be auto recovery when short circuit faults remove.

3.2) Over Current Protection

The power supply will be auto recovery when over current faults remove.

4. Environmental Requirements

4.1) Operating Temperature:

0°C to 40 °C, Full load, Normal operation.

4.2) Storage Temperature:

-20°C to 60°C, with package

4.3) Relative Humidity:

5%(0°C) to 90%(40°C)RH, 72Hrs, Full load, Normal operating.

4.4) Vibration:

4.4.1) Operating: IEC 721-3-3 3M3

5-9Hz, A=1.5mm

(9-200Hz, Acceleration 5m/S²)

4.4.2) Transportation: IEC 721-3-2 2M2

5-9Hz, A=3.5mm

9-200Hz, Acceleration = 5m/S²

200-500Hz, Acceleration = 15m/S²

4.4.3) Axes, 10 cycles per axis

No permanent damage may occur during testing.

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

4.5) Dropping Packed:

Drop the height is 760mm.

The horizontal surface Consists of hardwood at least 13mm thick, mounted on two layers of plywood each 19mm to 20mm thick, all supported on a concrete or equivalent non-resilient floor.



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5. Safety & EMC Requirements

5.1) Safety: Accord standard with UL60950

5.2) Dielectric Strength Hi-Pot:

Primary to secondary: 4242VDC/5mA/60S for type test.

5.3) Insulation Resistance:

Primary to secondary: 20MΩ Min at 500VDC.

5.4) EMI Standard

Meet the limits of:

1. FCC part115 class B rules
2. EN55022 class B rules
3. GB9254-1998, GB17625.1-2003
4. AS/NZS CISPR22:2006

6. Mechanical Requirements

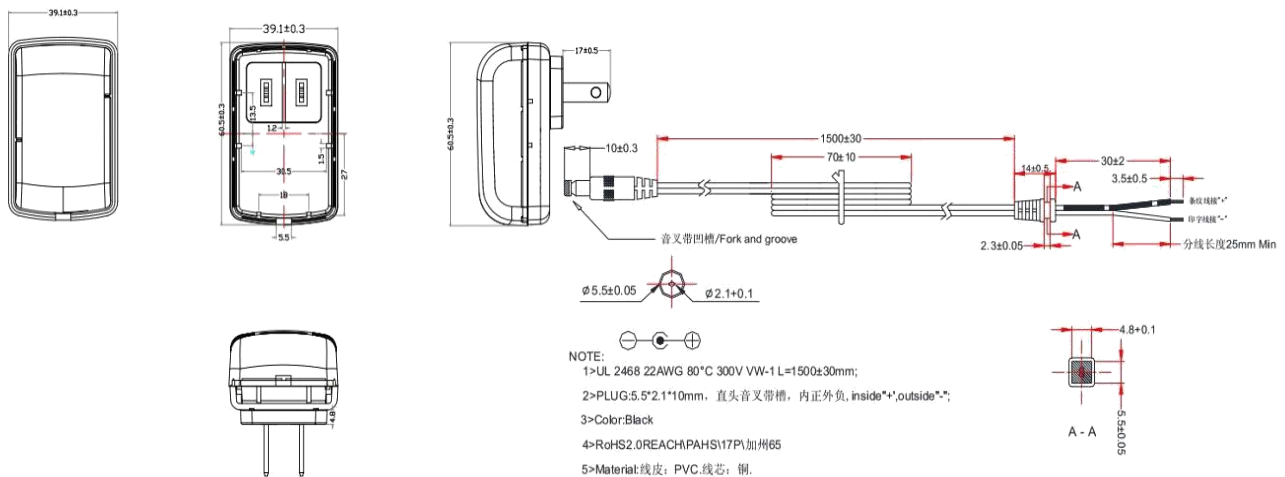
6.1) Enclosure:

The power supply size: L60.5*W39*H31mm

6.2) Input Connector:

Two Pin Wall Mount Input Plug of UL

6.3) Outline Drawing:



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