Electrical Specification

Description: ADAPTER

Model No.： LS-PW12W-9V1A

Specification： 9V1A

Revision: A0

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Rev.	Description of Change		Changde Date	ECN No.
	Before	Afret		
A0	Original Release	---	2014.5.8	---

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1. SCOPE

The document detail the electrical,mechanical and environmental specifications of a Adapter POWER, the power supply provide 18.0 W (continuous output power).output.

The power supply shall meet the **RoHS** requirement.

1.1. Description

■SMPS Adaptor(Wall mount) ☐SMPS Adaptor(Desk-top)
☐Open Frame ☐SMPS Unit(With Case)
☐Others

2. Input Characteristics

2.1. Input Voltage & Frequency

The range of input voltage is from 90Vac to 264Vac single phase.

	Minimum	Nominal	Maximun
Input Voltage	90Vac	100Vac-240Vac	264Vac
Input Frequency	47Hz	60Hz/50Hz	63Hz

2.2. Input AC Current/AC

0.6Amax. @ 100-264Vac input & Full load

2.3.Inrush Current (cold start)

10Amax. @ 264Vac input

2.4.Efficiency(Normal)

82.2 % min. @ (type83% at input 110Vac)& Full load
82.7% min. @ (type83% at input 230Vac)& Full load

3. Output Characteristics

3.1. Static Output Characteristics<Vo & R+N>

Input Voltage	Input power	Rated Output	No Load	Output Range	Ripple and Noise Range
AC110V	≤0.3W	+5V	0.0A	11.4-12.6V	≤100mVp-p
AC230V	≤0.3W	+5V	0.0A	11.4-12.6V	≤100mVp-p

3.2Output Voltage/Cuttent

Input Voltage	Output Voltage	Output Current	Ripple and Noise Range
AC115V	11.4-12.6V	0-1A	≤150mVp-p
AC230V	11.4-12.6V	0-1A	≤150mVp-p

3.3Turn-on Delay Time

5.0S max. @ 100Vac to 240Vac input & Full load

3.4 Hold-up Time

6mS min. @ Full load &115Vac/60Hz input turn off at worst case
10mS min. @ Full load &230Vac/50Hz input turn off at worst case

3.5 Rise Time

50mS max. @ Rated load

3.6 Fall Time

50mS max. @ Full load

3.7 Output Overshoot/Undershoot

10%max. When the power on or off

3.8 Output Load Transient Response

Output voltage within**11.4V-12.6V** for load step from 20% to 80%,R/S:0.5A/Us, frequency: 100Hz

4. Protenction Requirements

4.1. Short Circuit Protection

The input power shall decrease when the output rail short, the power supply shall no damage, and shall be self-recovery when the fault condition is removed

4.2. Over Current Protection

Over current protection with auto recovery function. Current limit：4A(max.).

5. Environment Rquirements

5.1. Operating Temperature and Relative Humidity

-35℃ to +60℃
10%RH to 100%RH

5.2. Storage Temperature and Relative Humidity

-40℃ to +80℃
5%RH to 100%RH non-condensing @ Sea level shall be low 10,000 feet

5.3. Vibration

10 to 300Hz sweep at a constant acceleration of 1.0G(Breadth:3.5mm) for 1Hour for each of The Perpendicular axes X,Y,Z

6. Reliability Requirements

6.1. Burn-in

The power supply shall under go a minimum of 4 Hours burn-in test at 40℃±5℃ under full load condition

6.2. MTBF Qualification

The MTBF shall be at least 50,000hours at 25℃, Full load and nominal input condition

7. EMI/EMS Standards/EMI/EMS

7.1. EMI Standards/EMI

GB 9254-2008	EN55022
GB 4943-2001	EN60950

8. Safety Standards

8.1. Primary to Secondary: 3000Vac 5mAMax / 60second(3 second for production)

Primary to Earth: 1500Vac 5mAMax / 60second(3 second for production)

Secondary to Earth: 1500Vac 5mAMax / 60second(3 second for production)

8.2. Leakage Current

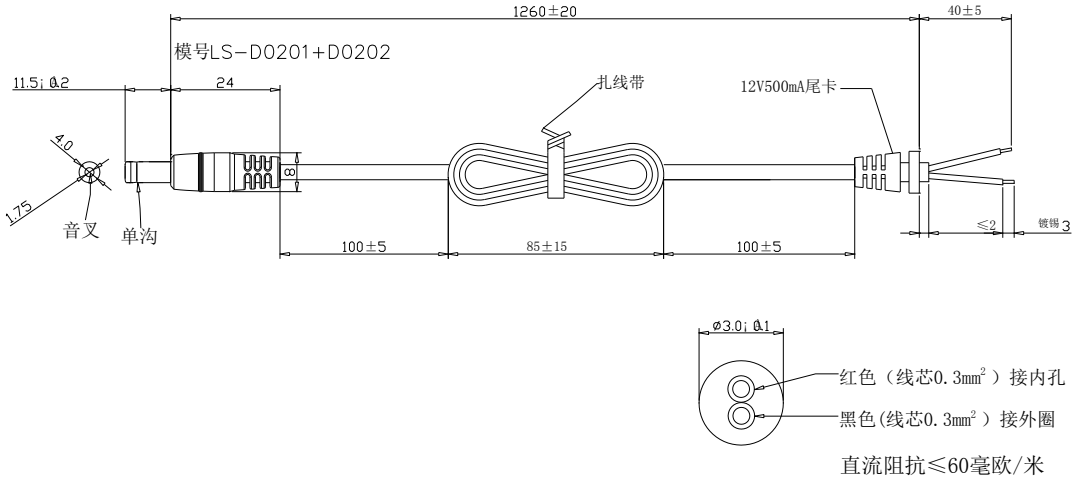
0.75mAmax. at264Vac/50Hz

8.3. Insulation Resistance

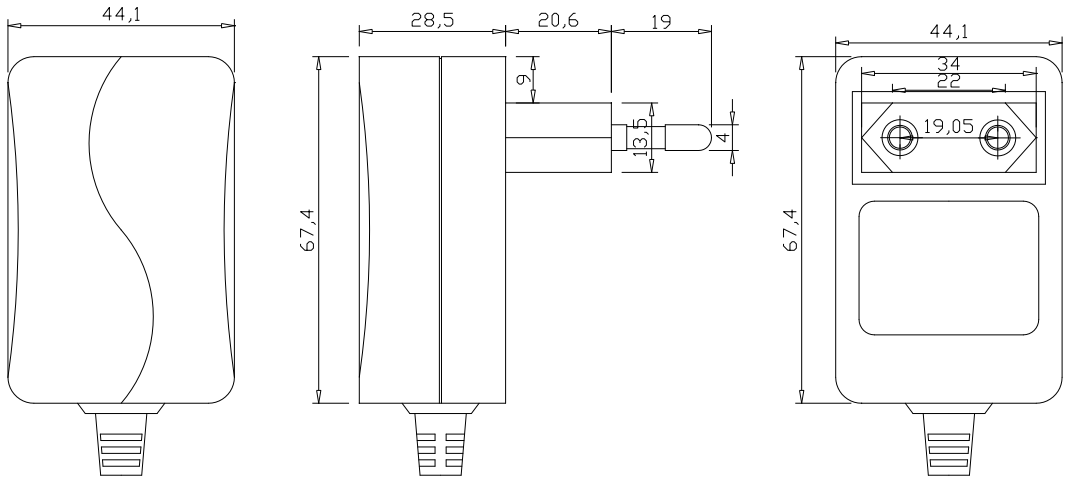
50MΩ min. at primary to secondary add 500Vdc test voltage.

9. Mach. Outline Drwaing

10.DC Cord/DC



11.Product figure frame picture



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