

GENERAL SPECIFICATION

The purpose of the document is to specify the functional requirements of a 6W switching AC adaptor.

Features:

Two pin wall mount input plug
Wide range AC input
Level B EMI filter
Fully enclosed plastic case
Fully regulated output
High efficiency
High Quality



1) INPUT

Description	Min.	Nominal	Max.	Condition
Input Voltage	90VAC	100/240VAC	264VAC	Auto Range; 50/60Hz
Input Current(rms)	1.0 Arms Max. At any input voltage and Max. DC output rated load.			
Line Frequency	47Hz	50/60Hz	63Hz	-
Inrush Current	70 Amps Max. Cold start at 230 Vac input, with rated load and 25 °C ambient			
AC Leakage Current	1 mA Max. At 240Vac input			
Efficiency	70% typ. At full load and 115 VAC (For 9W 66% Min. At Normal Ac input and output Max. Load.)			

2) OUTPUT

Model No.	Nominal Voltage	Max. Power	Output Current		Line Regulation	Load Regulation	Ripple & Noise
			MIN.	MAX.			
ALD08-5FU	5.0VDC	5W	0.0A	1.0A	±1%	±5%	50mVp-p
SFE-9FD	9.0VDC	6W	0.0A	0.65A	±1%	±5%	90mVp-p
ALD08-12FU	12.0VDC	7.2W	0.0A	0.6A	±1%	±5%	120mVp-p
		W	A	A	%	%	mVp-p
		W	A	A	%	%	mVp-p
		W	A	A	%	%	mVp-p

NOTE: The ripple and noise are as follows when measure with Max. Bandwidth of 20 MHz and parallel 10uF/0.1uF, crossed connected at testing point.

- 2.1) **Hold up time:** 12ms typical at full load @ 115VAC (for 12.5W, Hold up time is 8ms)
- 2.2) **Turn On Delay:** 100mS Max. At 115Vac input and output Max. Load.
- 2.3) **Rise Time:** 20mS Max. At 115Vac input and output Max. Load.
- 2.4) **Overshoot:** 12% Max. When power supply at turn on or turn off.



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3) PROTECTION:

3.1) Short Circuit Protection:

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

3.2) Over Power Protection:

120% ~ 180% active for 12.5W rated of power.
Total power protection at normal AC input voltage,
The power supply will be auto recovery.

3.3) Over Voltage Protection:

Build-in.

4) ENVIRONMENT

4.1) Operating Temperature:

5°C to 40°C, Full load, Normal operation.

4.2) Storage Temperature:

-20°C to 85°C Without package

4.3) Relative Humidity:

5%(0°C) ~ 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 3 Axes, 10 cycles
per axis. (No permanent damage may occur during
testing.

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

4.5) Dropping (packed):

1 corner, 3 edges, and 6
surfaces (Height: 76 cm)



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HIGH QUALITY SWITCHING SUPPLIES

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5) SAFETY REQUIREMENTS

5.1) EMI Requirement:

FCC Class B

VCCI Class B

CISPR 22 Class B

5.2) Dielectric Strength (Hi-Pot):

Primary to secondary, 3000Vac/10mA/1Seconds

Or 4242Vdc/10mA/1Seconds

6) MECHANICAL REQUIREMENT:

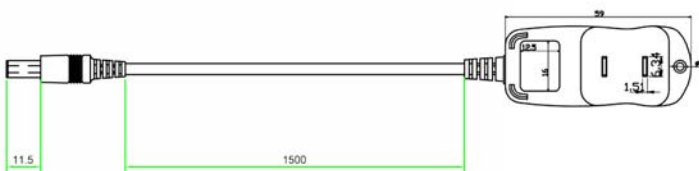
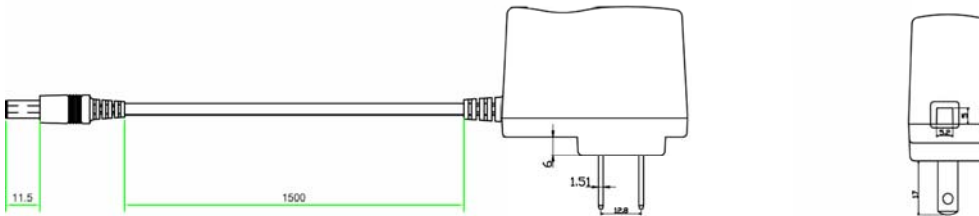
6.1) Enclosure:

The adaptor size L:60•W:25.5•H:65mm

6.2) Input Connector:

Two pin wall mount input plug

6.3) Outline Drawing:



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