



GENERAL SPECIFICATION	
The purpose of the document is to specify the functional requirements of a 8W switching AC adaptor.	
<b>Features:</b>	
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			

### 2) OUTPUT

Model No.	Nominal Voltage	Max. Power	Output Current		Line Regulation	Load Regulation	Ripple & Noise
			MIN.	MAX.			
SFE-9FD	9V	8W	9.0V	0.65A	±1%	±5%	90mVp-p
SFE-5FD	5V	8W	5.0V	1.0A	±1%	±5%	40mVp-p
SFE-12FD	12V	8W	12.0V	0.5A	±1%	±5%	120mVp-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
- 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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Fangshui Industrial Park,  
Dongqian Lake. Ningbo, China

### 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 10.5W 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 55°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/s<sup>2</sup>

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

5~9Hz, A=3.5mm 9~200Hz, Acceleration=5m/s<sup>2</sup>  
200~500Hz, Acceleration=15m/s<sup>2</sup> 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, 3500Vac/10mA/1Seconds

Or 4242Vdc/10mA/1Seconds

## 6) MECHANICAL REQUIREMENT:

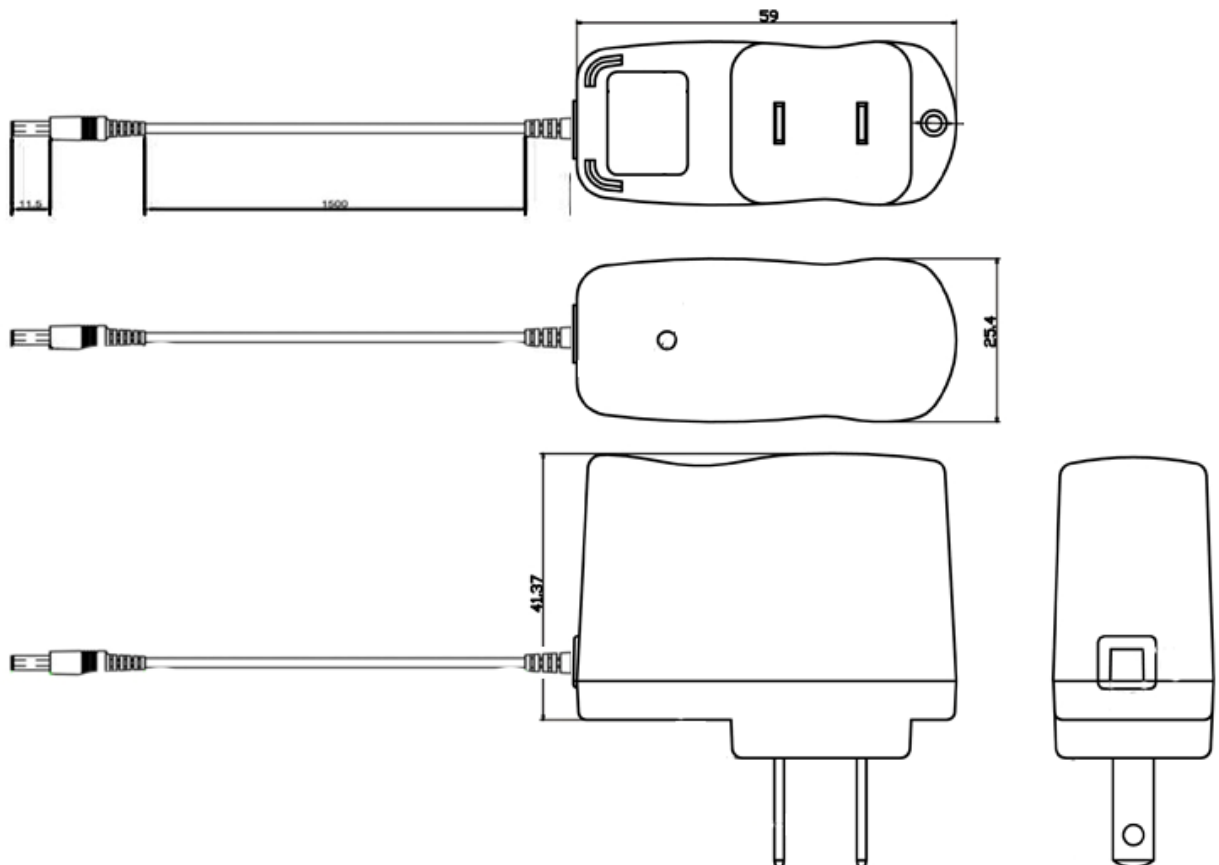
### 6.1) Enclosure:

The adaptor size L:58•W:25.0•H:41mm

### 6.2) Input Connector:

Two pin wall mount input plug

### 6.3) Outline Drawing: 5.5/2.5/12



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