



## GENERAL SPECIFICATION

This specification describes the performance characteristics of a single phase, 30 Watts, Single Output Switching Adapter.

### 1) INPUT

INPUT				
Description	Min.	Typical	Max.	Condition
Input Voltage	90VAC	115/230V	264VAC	Full Range; 50/60Hz
Input Current(RMS)	-	-	1A	90 VAC 50Hz
Line Frequency	47Hz	50/60Hz	63Hz	-
Inrush Current	-	-	60A	230VAC Cold Start
Efficiency	-	75%	-	115VAC at full load

### 2) OUTPUT

OUTPUT				
SINGLE OUTPUT: DC 12V/2.5A, 30W MAX.				
NOMINAL VOLTAGE	TOTAL REGULATION	OUTPUT CURRENT		RIPPLE & NOISE
		MIN.	MAX.	
+12V	±3%	0A	2.5A	120mV

NOTE:1) 20MHz bandwidth ripple & noise is measured by using 0.1uF C.C. & 10uF/50V  
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2) Regulation shows the percentage of absolute value of nominal output voltage.  
The total output should be 30W max.

### 3) PROTECTION:

#### 3.1) OVER VOLTAGE PROTECTION:

If any over voltage occurs, the power supply should latch off before any output exceeds its limit below:

NOMINAL VOLTAGE(V)	OVERVOLTAGE RANGE(V)	
	FROM	TO
+12VDC	+13.5VDC	+15.5VDC

The power supply will be automatically recovered after the over voltage fault being removed.

### 3.2) **SHORT CIRCUIT PROTECTION**

Short circuit occurred on +12V output should not cause any damage to the power supply but shut down the power supply. The power supply will be automatically recovered after the short circuit being removed.

### 3.3) **OVERLOAD PROTECTION**

An over load protection will be effected when overloading reaches +160% MAX. The power supply will be automatically recovered after the overload being removed

### 3.4) **VIBRATION**

10-55Hz amplitude (sweep 1 min.) less than 2G X, Y, Z 1 hour ea.

### 3.5) **SHOCK: <20G**

## 4) **ENVIRONMENT**

### 4.1) **Operating temperature**

Temperature	0 to 40 degree
Relative Humidity	20 to 90 percent, non-condensing

### 4.2) **SHIPPING AND STORAGE:**

Temperature	-25 to +85 degree centigrade
Relative Humidity	20 to 90 percent, non-condensing

## 5) **SAFETY REQUIREMENTS(MEET)**

The adapter must comply with UL/CSA/TUV/IEC950 standards.

### 5.1) **DIELECTRIC WITHSTAND**

- Primary to Secondary : 3000 VAC for 60 Sec.
- Primary to Frame Ground : 1500 VAC for 60 Sec.

### 5.2) **INSULATION RESISTANCE**

- Primary to Secondary : 50 Meg. Ohms Min. 500 VDC
- Primary to Frame Ground : 20 Meg. Ohms Min. 500 VDC.

## 6) **ELECTROMAGNETIC COMPABILITY**

Tests for conformance to this requirements will be performed with host system.

### 6.1) **FCC Requirements**

The adapter shall comply with the FCC rules and regulations Part 15, Subpart J, "Class B" limits.

### 6.2) **CE Requirements**

The adapter shall confirm to the "Class B" requirements of EN55022.



## 7) RELIABILITY

MTBF: 50,000 hours min. at max. load for 25 degree centigrade ambient temperature.

## 8) BURN-IN TEST

100% burn-in tested at max. load under 40 +/-5 degree centigrade.

## 9) MECHANICAL DIMENSION

Outside dimension: 106(L) X 60(W) X 30(H)mm  
Input connector: IEC320-C7(2 PIN)  
Depends on your requirements.

