

# AC/DC Power Supply

## 1 Output

pro-ELEC



RoHS  
Compliant

### Description

This is a SMPS Adapter (Wall mount). The power supply provide 9W continuous output power.

### Input Features

#### Input Voltage and Frequency

The range of input voltage is from 90V AC to 264V AC with a single phase.

	Minimum	Nominal	Maximum
Input Voltage	90V AC	100V AC to 240V AC	264V AC
Input Frequency	47Hz	60Hz / 50Hz	63Hz

#### Input AC Current

0.5A max. @ 100V AC to 240V AC Input and Full load

#### Inrush Current (cold start)

The inrush current will not exceed 40A at 240V AC input

#### Average Efficiency

81.34%min.@ Nominal input

#### Energy Consumption

While input 100V AC to 240V AC and the output is no load, the input power loss must be less than 0.1W

### Output Features

#### Static Output Characteristics

The switching mode power supply shall have one regulated DC output voltage: 5V DC.

The table below defines the total regulation banding for the output, which includes line regulation, load regulation, transient response, and effects due to environmental conditions and aging. Voltage shall be measured at its output connector.

Output	Rated Load		Output Range	Ripple & Noise
Rate	Min.	Max.	8.55V to 9.45V	200m Vpp
9V	0A	1A		

Ripple & Noise: Measurement is done by 20MHz bandwidth oscilloscope and the output paralleled a 0.1 $\mu$ F ceramic capacitor and a 10 $\mu$ F electrolysis capacitor. (Test under the condition of rated input and rated output)

#### Line/ Load Regulation

Output	Load Condition		Line Regulation	Load Regulation
Rate	Min.	Max.	$\pm 1\%$	$\pm 5\%$
+9V	0A	1A		

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## Turn - on Delay Time

3S max. @ 100V AC to 240V AC input & Full load

## Hold-up Time

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

20mS min. @ Full load & 230Vac/50Hz input turn off at worst case

## Rise Time

20mS max. @ Rated load

## Fall Time

20mS max. @ Full load

## Output Overshoot / Undershoot

10% max. When the power on or off

## Output Load Transient Response

Output voltage within 8.55V to 9.45V for load step from 25% to 50% to 25%, 50% to 75% to 50% R/S: 0.25A/ $\mu$ S,  
Transient Response Recovery Time :200 $\mu$ S; Dynamic response overshoot 5%

## Environmental Conditions

### Temperature

Operating Temperature : 0°C to +40°C

Storage Temperature : -20°C to +80°C

### Humidity

Operating Humidity : 10% RH to 90% RH

Relative Humidity : 5% RH to 95% RH

## Safety Standards

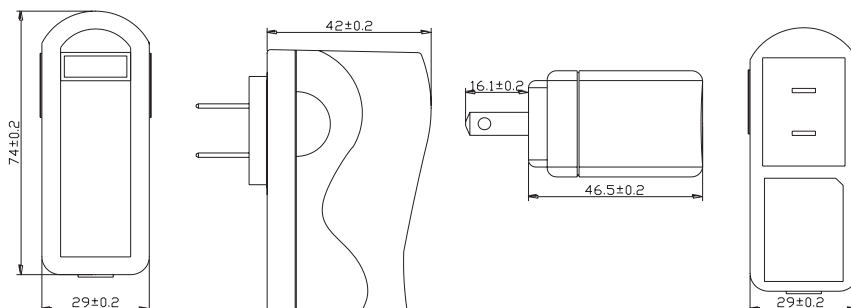
### Dielectric Strength (HI-POT)

Primary to Secondary : 3000V AC / 10mA Max / 60second (3 seconds for mass production)

Leakage Current : 0.25mA max. at 264V AC / 50Hz

Insulation Resistance : 50M $\Omega$  min. at primary to secondary add 500V DC test voltage

## Diagram



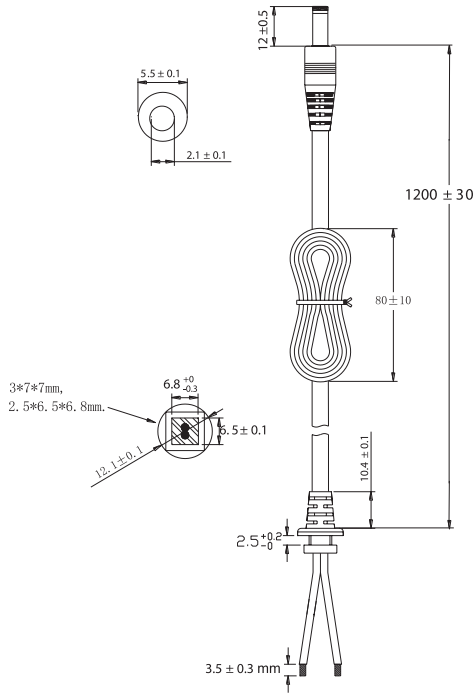
Dimensions : Millimetres

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# AC/DC Power Supply 1 Output

## DC Cord



## Part Number Table

Description	Part Number
AC/DC Power Supply, ITE, 1 Output, 9V, 1A	28-19355

Dimensions : Millimetres

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