

AC/DC Power Supply 1 Output

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RoHS
Compliant



Description

This is a SMPS Adaptor(Desk-top). The power supply provide 25W 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

1.3A max. @ 100V AC to 240V AC Input and Full load

Inrush Current (cold start)

The inrush current will not exceed 40A at 264V AC input

Average Efficiency

80.24%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 $\leq 0.3W$

Output Features

Static Output Characteristics

Output	Rated Load		Output Range	Ripple & Noise
	Min.	Max.		
+5V	0A	5A	4.75V to 5.45V	200m Vpp

Ripple & Noise: Measurement is done by 20MHz bandwidth oscilloscope and the output paralleled a 0.1 μ F ceramic capacitor and a 47 μ F electrolysis capacitor. (Test under the condition of rated input and rated output)

Line/ Load Regulation

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

Turn - on Delay Time

3S max. @ 100V AC to 240V AC input and full load

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Hold-up Time

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

20mS min. @ Full load & 230V AC/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 4.75V to 5.45V for load step from 25% to 50% to 25%, 50% to 75% to 50% R/S: 0.25A/ μ S,

Transient Response Recovery Time :200 μ 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)

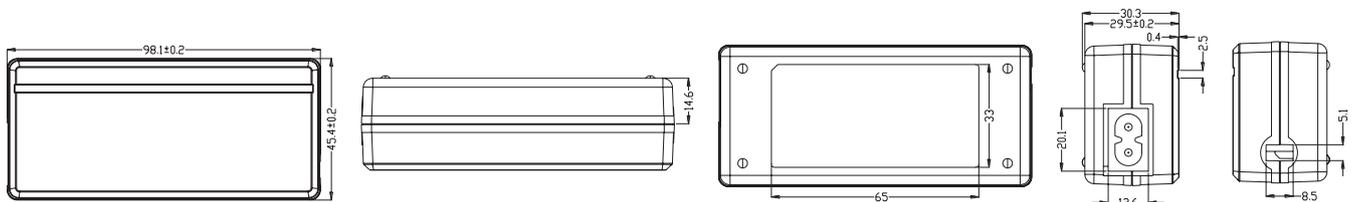
Primary to Secondary : 3000V AC / 10mA Max / 60 second

Primary to Secondary : 3300V AC / 5mA Max / 3 second

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

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

Diagram



Dimensions : Millimetres

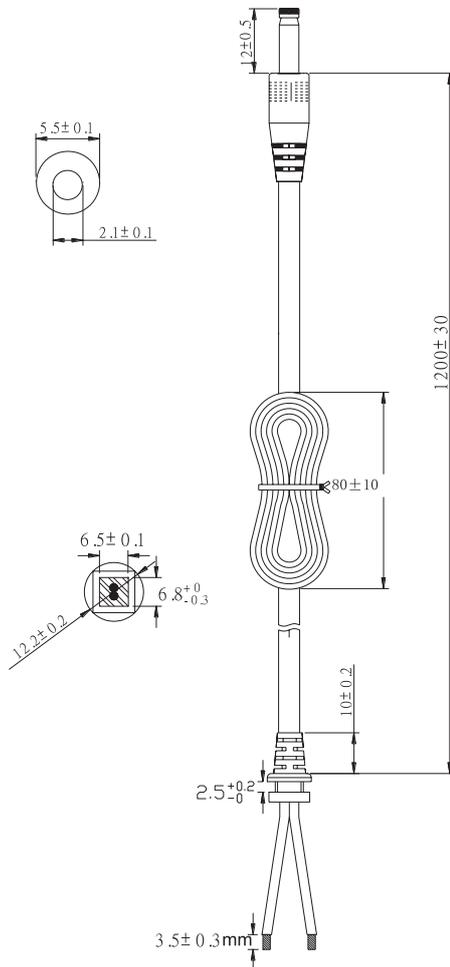
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AC/DC Power Supply 1 Output

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DC Cord



Dimensions : Millimetres

Part Number Table

Description	Part Number
AC/DC Power Supply, ITE, 1 Output, 5V, 5A	28-19325

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