

# AC/DC Power Supply

## 1 Output

pro-ELEC



RoHS  
Compliant

### Description

This is a SMPS Adapter (Wall mount). The power supply provide 6W 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 264V AC input

#### Average Efficiency

78.88%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. | 5.7V to 6.3V | 200m Vpp       |
| +6V    | 0A         | 1A   |              |                |

Ripple & Noise: Measurement is done by 20MHz bandwidth oscilloscope and the output paralleled a 0.1 $\mu$ F ceramic capacitor and a 47 $\mu$ 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. | $\pm 1\%$       | $\pm 5\%$       |
| +6V    | 0A             | 1A   |                 |                 |

Newark.com/exclusive-brands  
Farnell.com/exclusive-brands  
Element14.com/exclusive-brands

pro-ELEC

# AC/DC Power Supply 1 Output

pro-ELEC

## 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 5.7V to 6.3V 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

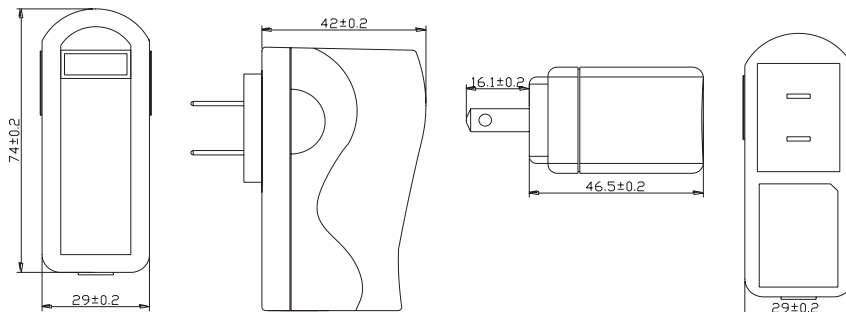
### Dielectric Strength (HI-POT)

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

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

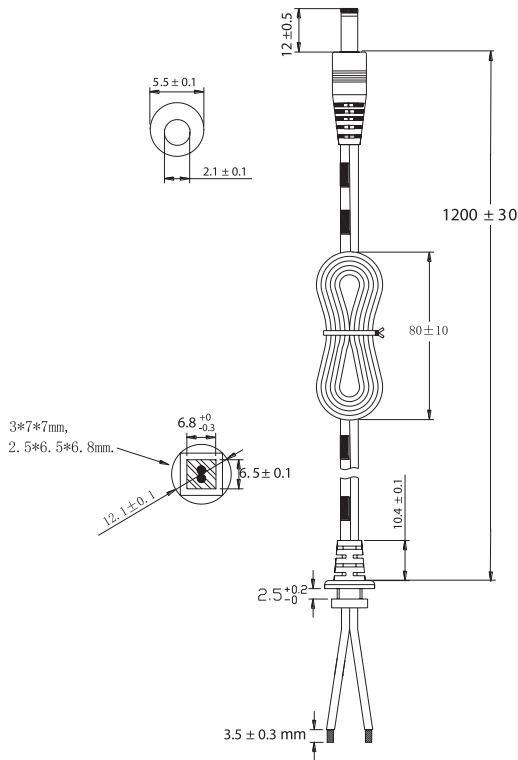
Newark.com/exclusive-brands  
Farnell.com/exclusive-brands  
Element14.com/exclusive-brands

pro-ELEC

# AC/DC Power Supply 1 Output

pro-ELEC

## DC Cord



## Part Number Table

| Description                               | Part Number |
|---|-------------|
| AC/DC Power Supply, ITE, 1 Output, 6V, 1A | 28-19350    |

Dimensions : Millimetres

**Important Notice :** This data sheet and its contents (the "Information") belong to the members of the AVNET group of companies (the "Group") or are licensed to it. No licence is granted for the use of it other than for information purposes in connection with the products to which it relates. No licence of any intellectual property rights is granted. The Information is subject to change without notice and replaces all data sheets previously supplied. The Information supplied is believed to be accurate but the Group assumes no responsibility for its accuracy or completeness, any error in or omission from it or for any use made of it. Users of this data sheet should check for themselves the Information and the suitability of the products for their purpose and not make any assumptions based on information included or omitted. Liability for loss or damage resulting from any reliance on the Information or use of it (including liability resulting from negligence or where the Group was aware of the possibility of such loss or damage arising) is excluded. This will not operate to limit or restrict the Group's liability for death or personal injury resulting from its negligence. pro-ELEC is the registered trademark of Premier Farnell Limited 2019.

Newark.com/exclusive-brands  
Farnell.com/exclusive-brands  
Element14.com/exclusive-brands

pro-ELEC