

# AC / DC External Plug In Adaptor Power Supply

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## Input Characteristics

### Input Voltage

Rated Input Voltage : 100V AC to 240V AC

Variable Input Voltage : 90V AC to 264V AC

### Input Current

0.4A max. when input rated voltage and output rated load

### Input Frequency

Rate Frequency : 50/60Hz

Variation Frequency : 47Hz to 63Hz

### In-rush Current

60 Amps Max. Cold start at 240V AC input ,with rated load and 25°C ambient

### AC Leakage Current

0.25mA Max. @ 240V AC input

## Output Characteristics

Rated Output Power : 12W

Voltage : +12V

Max. Load : 1A

Load Regulation : 11.4V to 12.6V

Unload Output Voltage : 11.4V to 12.6V

### Efficiency

115V AC input, the average efficiency  $\geq 82.96\%$  output rated load is 25%, 50%, 75%, 100% 4 situations of average efficiency

230V AC input, the average efficiency  $\geq 82.96\%$  output rated load is 25%, 50%, 75%, 100% 4 situations of average efficiency

Unload standby Power : 0.1W Max.

### 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)

Voltage : +12V

Current : 1000mA

Ripple And Noise (Max) : 120m Vp-p

### Turn On Delay Time

3 second Max. @ 100V AC input and output Max. Load

### Rise Time

100ms Max. @ 100V AC input and output Max. Load

### Hold Up Time

5ms Min. @ 100V AC input and output Max. Load.

### Overshoot

10% Max. When power supply on or turn off.

## Environmental Requirements

Operating Temperature : 0°C to +40°C (Full Load, Normal operation)

Storage temperature : -10°C to +55°C

Relative Humidity : 5% (0°C) to 90% (40°C) 72h (Full Load, Normal operation)

Vibration : Operating: IEC 721-3-3 3M3; 5~9Hz, A=1.5mm (9~200Hz, Acceleration 5m/s)

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## Mechanical Characteristics

### Cable Flexing Testing

The DC cord weight of 200g, its swings angle 45° and 2000 cycle and also bending speed timing will be 40 cycle per minute.

### Safety Standard

Safety Accord with IEC 62368-1: 2014, IEC62368-1, EN62368-1, UL60950-1, GB4943.1

Note: AC pins corresponding to national standards, such as the CE that corresponds to EN62368-1; 3000V AC

### Dielectric Strength Hi-Pot

Primary to secondary, 3000V AC/5mA/5s

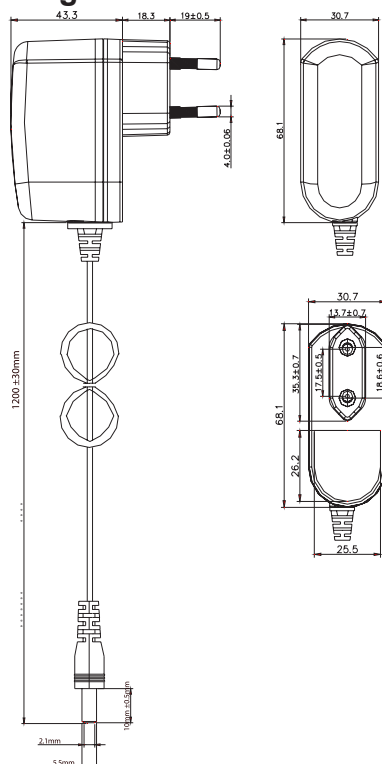
### Insulation Resistance

Primary to secondary : 10MΩ Min at 500V DC

Volume : 68.1mm × 30.7mm × 80.6mm (L×W×H)

Weight : 100g ±5g

## Diagram



Tolerance: ±0.5mm

Dimensions : Millimetres

## Part Number Table

| Description                                                | Part Number |
|------------------------------------------------------------|-------------|
| Plug In Power Supply, 12V, 1A, 12W, Euro 2 Pin, 2.1mm Plug | PELL0219    |

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