

RoHS  
Compliant



## Input Characteristics

### Input Voltage

Rated Input Voltage : 100V AC to 240V AC  
Variable Input Voltage : 90V AC to 264V AC

### Input Current

2A 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

3.5mA Max. @ 240V AC input

## Output Characteristics

Rated Output Power : 90W  
Voltage : +12V  
Max. Load : 7.5A  
Load Regulation : 11.4V to 12.6V  
Unload Output Voltage : 11.4V to 12.6V

### Efficiency

115V AC input, the average efficiency  $\geq 88\%$  output rated load is 25%, 50%, 75%, 100% 4 situations of average efficiency  
230V AC input, the average efficiency  $\geq 88\%$  output rated load is 25%, 50%, 75%, 100% 4 situations of average efficiency  
Unload standby Power : 0.21W 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 : 7500mA  
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 +25°C (Full Load, Normal operation)  
Storage temperature : -20°C to +70°C  
Relative Humidity : 5% (0°C) to 90% (25°C) 72h (Full Load, Normal operation)  
Vibration : Operating: IEC 721-3-3 3M3; 5~9Hz, A=1.5mm (9~200Hz, Acceleration 5m/s)

## 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, EN60950-1+62368-1, UL60950-1+62368-1, GB4943.1

Note: AC pins corresponding corresponding corresponding to national standards, such as the CE that corresponds to EN60950-1+62368-1; 1500V AC

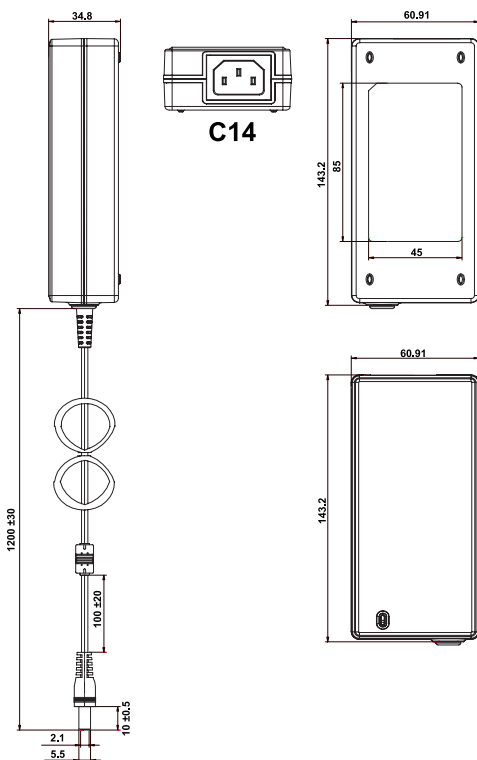
### Dielectric Strength Hi-Pot

Primary to secondary, 1500V AC/5mA/60s.

### Insulation Resistance

Primary to secondary : 10MΩ Min at 500V DC  
 Volume : 143.2mm × 60.91mm × 34.8mm (L×W×H)  
 Weight : 407g ±20g

## Diagram



Tolerance: ±0.5mm  
 Dimensions : Millimetres

## Part Number Table

Description	Part Number
Desktop Power Supply, 12V DC, 7.5A, 90W, 2.1mm Plug	PELL0397

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