AC/DC Power Supply

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 ≥88% output rated load is 25%, 50%, 75%, 100% 4 situations of average efficiency
230V AC input, the average efficiency ≥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 0.1μF ceramic capacitor and a 47μF 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)

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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, 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

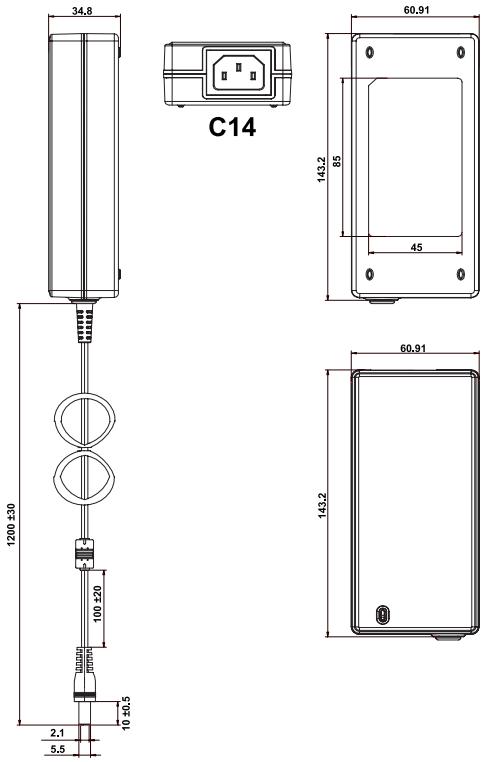
Dielectric Strength Hi-Pot

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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