

RoHS  
Compliant



## Input Characteristics

### Input Voltage

Rated Input Voltage : 100V AC to 240V AC

Variable Input Voltage : 90V AC to 264V AC

### Input Current

1.5A 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 : 36W

Voltage : +12V

Max. Load : 3A

Load Regulation : 11.4V to 12.6V

Unload Output Voltage : 11.85V to 12.6V

### Efficiency

115V AC input, the average efficiency  $\geq 87.4\%$  output rated load is 25%, 50%, 75%, 100% 4 situations of average efficiency

230V AC input, the average efficiency  $\geq 87.4\%$  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 : 3000mA

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

### Turn On Delay Time

5 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)

## Mechanical Characteristics

### Cable Flexing Testing

The DC cord weight of 200g, its swings angle 60°. and 2000 cycle and also bending speed timing will be 40 cycle per minute.

### Safety Standard

Safety Accord with IEC62368-1, EN62368-1, UL60065, GB8898

Note: AC pins corresponding corresponding 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.

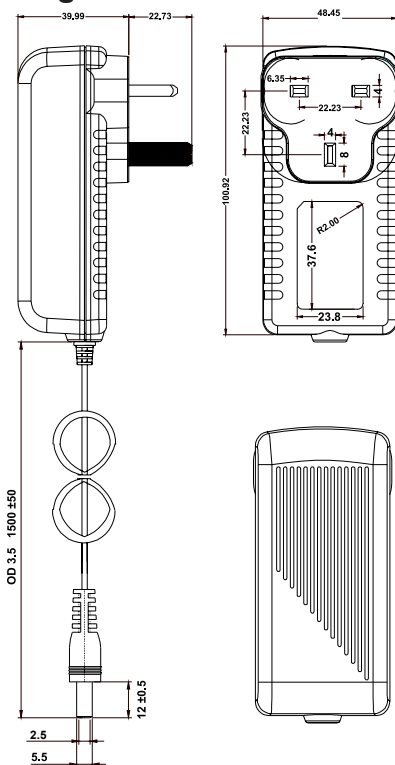
### Insulation Resistance

Primary to secondary : 10MΩ Min at 500V DC

Volume : 100.92mm × 48.45mm × 62.72mm (L×W×H)

Weight : 183g ±20g

## Diagram



Dimensions : Millimetres  
Tolerance: ±0.2mm

## Part Number Table

Description	Part Number
AC/DC Power Supply, ITE, 1 Output, 36W, 12V, 3A, 2.5mm Plug	PEL00854

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