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

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 : 12V to 12.6V

Efficiency

115V AC input, the average efficiency ≥82.96% output rated load is 25%, 50%, 75%, 100% 4 situations of average efficiency
230V AC input, the average efficiency ≥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 0.1μF ceramic capacitor and a 47μF 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 60° and 2000 cycle and also bending speed timing will be 40 cycle per minute.

Safety Standard

Safety Accord with IEC60950, EN60950, UL60950, GB4943

Note: AC pins corresponding corresponding corresponding to national standards, such as the CE that corresponds to EN60950; 3000V AC

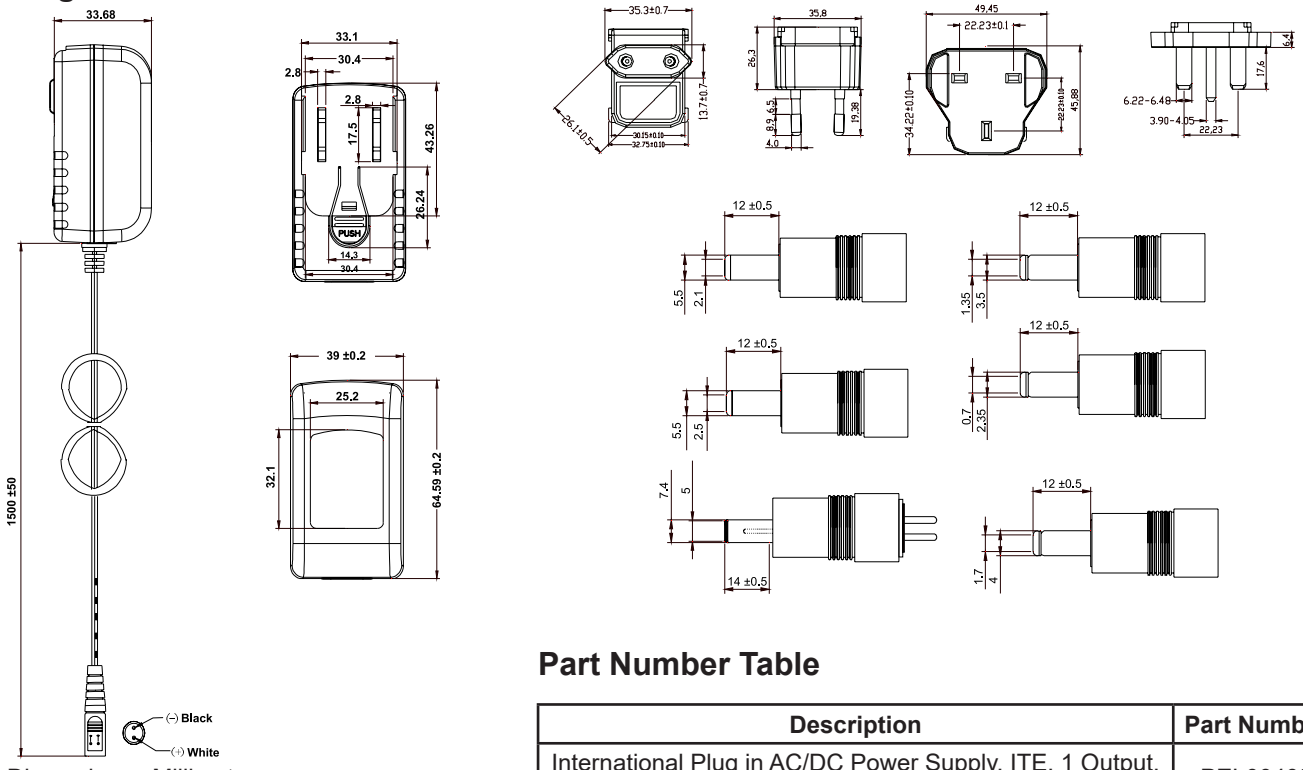
Dielectric Strength Hi-Pot

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

Insulation Resistance

Primary to secondary	: 10MΩ Min at 500V DC
Volume	: 64.59mm × 39mm × 33.68mm (L×W×H)
Weight	: 100g ±20g

Diagram



Dimensions : Millimetres
Tolerance: ±0.2mm

Part Number Table

Description	Part Number
International Plug in AC/DC Power Supply, ITE, 1 Output, 12W, 12V, 1A, Universal with 6x Tips	PEL00405