

# AC to DC Power Supply External Plug In

pro-ELEC



## Features

- 115V/230V AC input
- 24V DC voltage, 500mA rated current
- Interchangeable AC heads (UK, EU, US, and AUS)
- Over-current, over-voltage, and short circuit protection
- DC cable length of 1.5m, with a 2.1mm DC plug
- Supplied with AUS, EURO, UK, and US interchangeable heads
- UK type G, Euro type C, US type A and AUS type I mains plugs
- Multihead power supply as used in the UK, Europe and many other countries

RoHS  
Compliant

## Input Characteristics

### Input Voltage

Rated Input Voltage : 100V AC to 240V AC  
Input voltage range : 90V AC to 264V AC

### Input Frequency

Rate Frequency : 50/60Hz  
Frequency range : 47Hz to 63Hz

### Input Current

0.6A max when input rated voltage and output rated load.

No-Load power: : 0.1W 115V/230V AC

### In-rush Current

60A mps Max Cold start at 240Vac input ,with rated load and 25°C ambient.

### AC Leakage Current

0.25mA Max. @ 240V AC input

## Output Characteristics

Rated Output Power : 24W  
Voltage : +24V  
Max. Load : 1A  
Load Regulation : 22.8V to 25.2V  
Unload Output Voltage : 22.8V to 25.2V

### Ripple & Noise

Measurement is done by 20MHz bandwidth oscilloscope and the output paralleled a 0.1uF ceramic capacitor and a 47uF electrolysis capacitor. (test under the condition of rated input and rated output)

Voltage : +24V  
Current : 1000mA  
Ripple And Noise (Max) : 180m Vp-p

### Efficiency

115V AC /230V AC input, output rated load is 25%,50%,75%,100% 4 situations of average efficiency

**Note:** The rated load is aged for 30 minutes before the DC head is tested.

115V AC/230V AC input, the reference is 72.88%. Is 10% of the output rated load.

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## Load Regulation

The rated output load is 20%-100%, the input voltage is 100V-240V AC, and the load adjustment within the load range is less than  $\pm 5\%$ .

## Turn On Delay Time

5 second Max .At 100V AC input and output Max. Load

## Rise Time

100ms Max. At 100Vac input and output Max. Load, Output voltage 10%-90%

## Hold Up Time

5ms Min.at100V AC input and output Max .Load.

## Overshoot

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

## Environmental Requirements

Operating Temperature	: 0°C to +35°C (Full Load, Normal operation)
Relative Humidity	: 5%(0°C)~90%(35°C) 72h (Full Load, Normal operation)
Storage temperature	: -20°C to +70°C
Storage Humidity	: 20% to 80%°C
With enclosure	: 20% to 80%

## Mechanical Characteristics

The drop height of the wall-type product is: the wood floor is 1.2 meter, the fall of 6 faces, each face falls once, can not fall open, the product function and structure are normal, do 25kgf tensile test.

## Safety Standard

Safety Accord with IEC62368-1, EN62368-1, UL62368-1, GB4943.1, J62368-1.

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

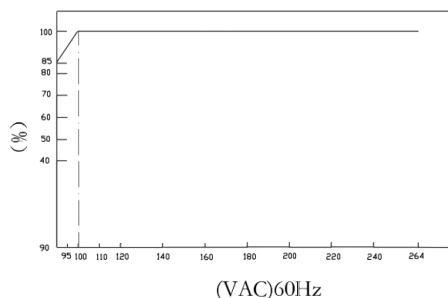
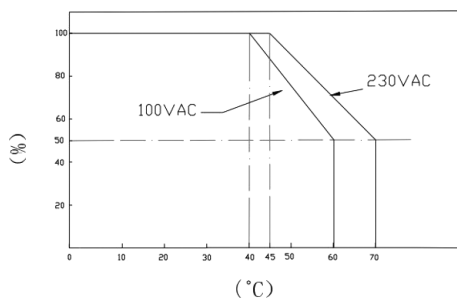
## Dielectric Strength Hi-Pot

Primary to secondary, 4000V DC (or 3000V AC) /5mA/3s.

## Insulation Resistance

Primary to secondary	: 10M $\Omega$ Min at 500V DC
Weight	: 111g $\pm$ 20g

## Derating curve



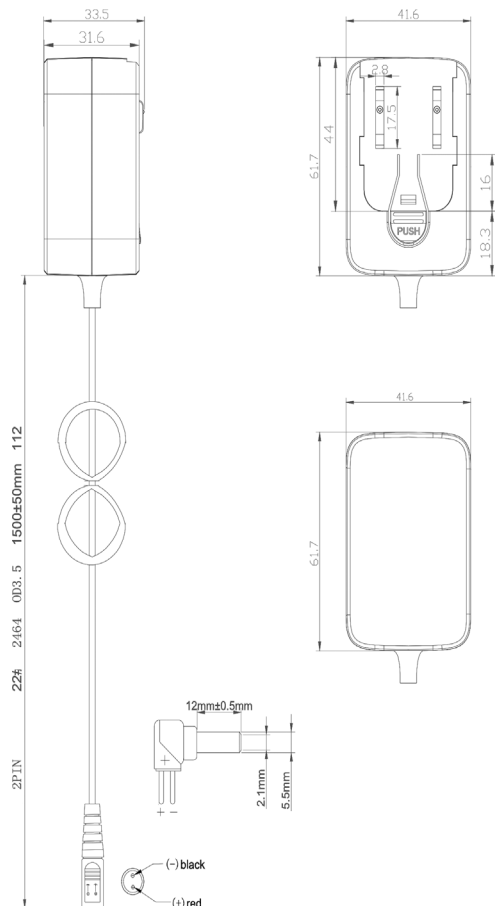
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## Diagram



## Part Number Table

Description	Part Number
AC To DC Power Supply, Universal PSU, 24V, 1A, 24W, 2.1mm RA	PELL0488

Dimensions : Millimetres

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