

Desk Top External Power Supply 30W

pro-ELEC

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

Input Current

1A Max. when input rated voltage and output rated load.

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

In-rush Current

60A mps 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

Method Of Measurement

- Constant voltage
- Constant current
- Constant resistor

Rated Output Power : 30W

Combined Load/Line Regulation

Voltage	Min. Load	Max Load	Load Regulation	Unload output voltage
CC+5V	0A	3.0A	4.75V-5.25V	4.9V-5.25V
CC+9V	0A	3.0A	8.55V-9.45V	8.8V-9.45V
CC+12V	0A	2.5A	11.4V-12.6V	11.8V-12.6V
CC+15V	0A	2.0A	14.25V-15.75V	14.7V-15.75V
CC+20V	0A	1.5A	19V-21V	19.6V-21V

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Farnell.com/exclusive-brands
Element14.com/exclusive-brands

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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	current	Ripple And Noise(Max)
+5V	3000mA	200m Vp-p
+9V	3000mA	200m Vp-p
+12V	2500mA	200m Vp-p
+15V	2000mA	200m Vp-p
+20V	1500mA	200m Vp-p

Efficiency

115V AC/230V AC input, the average efficiency (5V, 3A) $\geq 81.39\%$ (9V, 3A) $\geq 86.62\%$ (12V, 2.5A) $\geq 86.95\%$ (15V, 2A) $\geq 86.95\%$ (20V, 1.5A) $\geq 86.95\%$. output rated load is 25%, 50%, 75%, 100% 4 situations of average efficiency

Turn On Delay Time

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

Hold Up Time

5ms Min. at 100V AC input and output Max. Load.

Rise Time

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

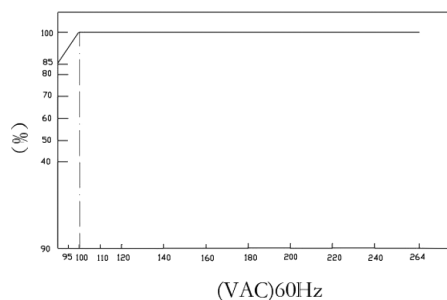
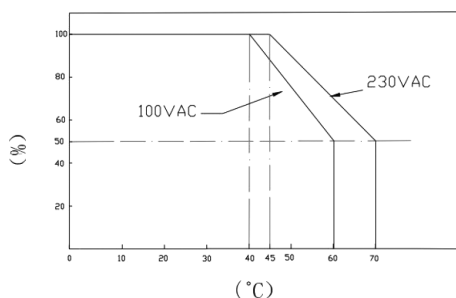
Overshoot

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

Environmental Requirements

Operating Temperature	: 0°C to +40°C (Full Load, Normal operation)
Relative Humidity	: 5% (0°C) to 90% (40°C) 72h (Full Load, Normal operation)
Storage temperature	: With enclosure:-25°C to +70°C
Storage Humidity	: With enclosure:-20°C to +80°C,

Derating curve



Safety Standard

Safety Accord with IEC62368-1, EN62368-1, GB4943

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

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