

**NEW • ULTRA MINIATURE DESKTOP
POWER SUPPLIES
• UNIVERSAL INPUT**

36 WATT

**SWITCHING
POWER SUPPLY**



DESCRIPTION

The CUP36 Series of AC/DC switching power supplies provide up to 36 Watts of continuous output power. They are enclosed in a sealed 94V-0 rated polyphenylene oxide case with an IEC 320 type C8 inlet connector to mate with an interchangeable cord for worldwide use. All models meet CISPR22 and FCC Class B emission limits and are approved to UL, cUL and TUV safety standards.



FEATURES

- CE Mark
- 100% Burn-in
- Built-in EMI filter
- Class II construction
- Short circuit protection
- Overvoltage protection
- Small size, only 0.79" x 1.97" x 4.33"
- Wide input voltage 90-264 VAC
- Approved to UL, cUL, and TUV safety standards

OUTPUT VOLTAGE/CURRENT RATINGS CHART

Models	Output				Maximum Output Power
	Vnom	Imin	Imax	Tol.*	
CUP36-10	5V	0A	4.0A	-5%,+7%	20W
CUP36-11	9V	0A	3.0A	5%	27W
CUP36-12	12V	0A	2.5A	5%	30W
CUP36-12-1	13.5V	0A	2.4A	4%	32W
CUP36-13	15V	0A	2.4A	4%	36W
CUP36-13-1	18V	0A	2.0A	4%	36W
CUP36-14	24V	0A	1.5A	4%	36W
CUP36-18	48V	0A	0.75A	4%	36W

* Total regulation includes initial tolerance, line regulation and load regulation.

GENERAL SPECIFICATIONS

Specifications are typical at 25°C, nominal line, 75% load

Efficiency:	85%
Hold-up time:	8 msec minimum at 115 VAC input
Inrush current:	25 amps at 115 VAC, or 50 amps at 230 VAC at 25°C cold start
Withstand voltage:	3000 VAC from input to output
Operating temperature:	0°C to +40°C
Storage temperature:	-20°C to +85°C
MTBF:	100,000 hours minimum at full load at 25°C ambient
EMI requirements:	Meets conducted and radiated limits of: a) FCC 20780 Level B b) CISPR 22 Class B
Safety requirements:	Approved to: a) UL 1950 b) CSA C22.2 No. 234 per cUL c) EN60950

INPUT SPECIFICATIONS

Input voltage:	90 to 264 VAC
Input frequency:	47 to 63 Hz
Input current:	1.0A maximum

OUTPUT SPECIFICATIONS

Output voltage:	See rating chart
Output current:	See rating chart
Output power range:	0 to 36 Watts
Ripple and noise:	1% peak to peak maximum
Overvoltage protection:	Set at 111-142% of its nominal output voltage. Typically 125%
Overcurrent protection:	All outputs protected to short circuit conditions
Temperature coefficient:	All outputs $\pm 0.04\%/^{\circ}\text{C}$ maximum

MECHANICAL SPECIFICATIONS

NOTES:

1. Dimensions shown in inches (mm)
2. Tolerance 0.02 (0.5) maximum
3. Output connector is 5.5mm outer diameter barrel. Inner diameter is 2.5mm with center positive (+)/outer shell negative (-) polarity.
4. Optional output connectors available
5. Output cable is 48"
6. Weight: 6 ounces, 170 grams approx.

