

**NEW • DESKTOP POWER SUPPLIES**  
**• UNIVERSAL INPUT**  
**• LOW PROFILE/COMPACT**

**45 WATT**

**SWITCHING  
POWER SUPPLY**



**DESCRIPTION**

The CUP45 Series of AC/DC switching power supplies provide up to 48 Watts of continuous output power. They are enclosed in a 94V-0 rated polyphenylene oxide case with an IEC 320 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**

- 100% Burn-in
- Built-in EMI filter
- Short circuit protection
- Overvoltage protection
- Wide input voltage 85 to 264 VAC
- Small size, only 1.18" x 2.29" x 5.2"
- Approved to UL, cUL, and TUV safety standards
- CE Mark

**OUTPUT VOLTAGE/CURRENT RATINGS CHART**

Models	Output				Maximum Output Power
	Vnom	Imin	Imax	Tol.*	
CUP45-10	5V	0A	6.00A	-5%, +7%	30W
CUP45-12	12V	0A	3.75A	5%	45W
CUP45-13	15V	0A	3.00A	4%	45W
CUP45-13-1	18V	0A	2.50A	3%	45W
CUP45-13-2	19V	0A	2.37A	3%	45W
CUP45-14	24V	0A	1.88A	3%	45W
CUP45-18	48V	0A	1.00A	2%	48W

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

## GENERAL SPECIFICATIONS

All specifications are typical at nominal line, 75% load and 25°C.

Efficiency:	82%
Hold-up time:	8 msec at 115 VAC
Inrush current:	50 amps max. at 115VAC or 100 amps max. at 264VAC, cold start
Withstand Voltage:	3000 VAC from input to output 1500VAC from input to ground 500VAC from output to ground
Insulation resistance:	50 Mohm min. from output to ground
Operating temperature:	0°C to +55°C*
Storage temperature:	-20°C to +85°C
MTBF:	100,000 hours minimum at full load at 25°C ambient
EMI requirement:	Meets conducted and radiated limits of: a) FCC 20780 Class B b) CISPR Class B
Safety requirements:	Approved to: a) UL 1950 b) CSA C22.2 No. 234 by cUL c) EN 60950

## INPUT SPECIFICATIONS

Input voltage:	90 to 264 VAC
Input frequency:	47 to 63 Hz
Input current:	1.5A maximum

## OUTPUT SPECIFICATIONS

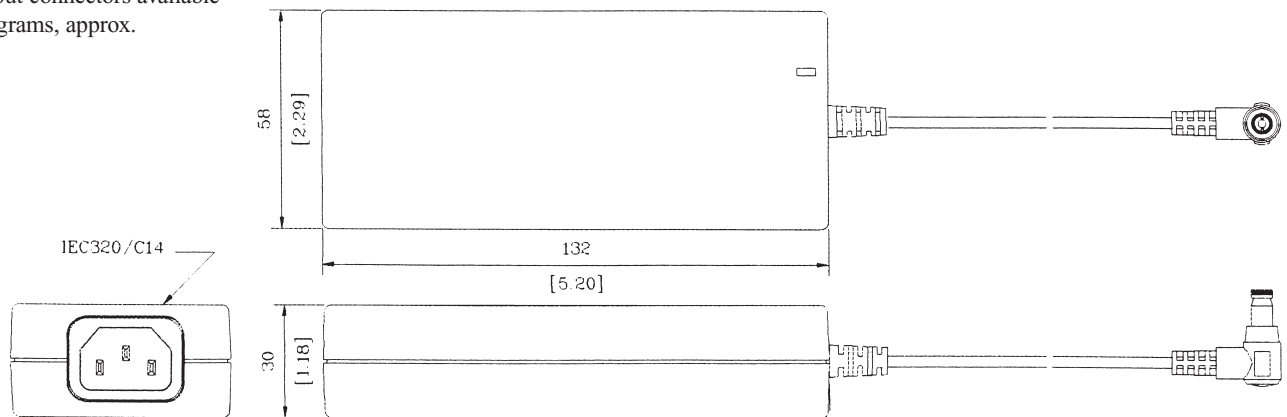
Output voltage:	See rating chart
Output current:	See rating chart
Total output power:	0 to 48 Watts
Ripple and noise:	1% peak to peak maximum
Overvoltage protection:	Set at 111 - 142% of nominal output, typically 125%
Overcurrent protection:	Protected to short circuit conditions
Temperature coefficient:	+0.04%/°C maximum
Transient response:	Maximum excursion of 4% or better on all models. Recovers to 1% of final value within 500us after a 25% step load change.

\*Derate linearly from 100% load at 40°C to 50% load at 55°C

## MECHANICAL SPECIFICATIONS

### NOTES:

1. Dimensions shown in mm (inches)
2. Tolerance 0.5 (0.02) maximum.
3. Output connector is 5.5mm outer diameter barrel. Inner diameter is 2.5mm with center positive (+)/outer shell negative (-) polarity.
4. Output cable length is 48" (+/- 0.8")
5. Optional output connectors available
6. Weight: 300 grams, approx.



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