

NEW • DESKTOP POWER SUPPLIES
• UNIVERSAL INPUT
• COMPACT

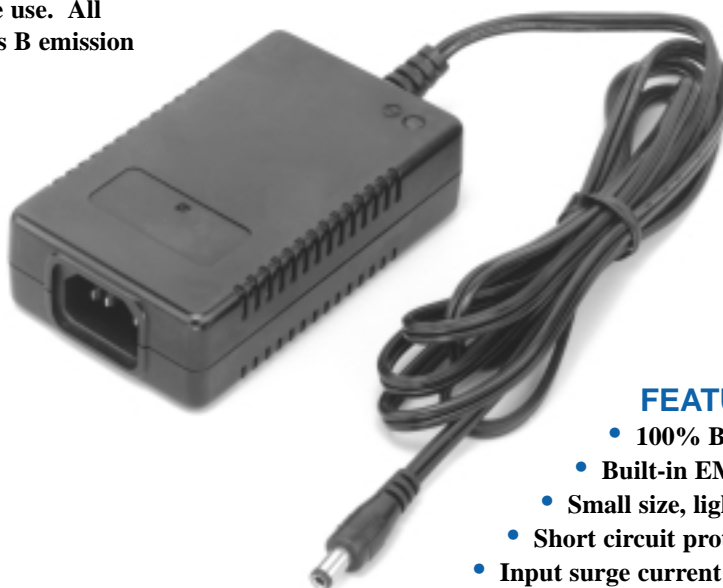
24 WATT

**SWITCHING
POWER SUPPLY**



DESCRIPTION

The HUP24 Series of AC-DC switching power supplies provide 24 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, CSA, and TUV safety standards.



FEATURES

- 100% Burn-in
- Built-in EMI filter
- Small size, light weight
- Short circuit protection
- Input surge current protection
- Wide input voltage 90-264 VAC
- Approved to UL, CSA, and TUV safety standards
- CE Mark

OUTPUT VOLTAGE/CURRENT RATINGS CHART

Model	Output				Maximum Output Power
	Vnom	Imin	Imax	Tol.	
HUP24-10	5V	0A	3.0A	5%	15W
HUP24-10-1	7V	0A	2.8A	5%	20W
HUP24-11	10V	0A	2.2A	5%	22W
HUP24-12	12V	0A	2.0A	5%	24W
HUP24-13	15V	0A	1.6A	5%	24W
HUP24-13-1	18V	0A	1.3A	5%	24W
HUP24-14	24V	0A	1.0A	5%	24W
HUP24-16	30V	0A	.80A	5%	24W
HUP24-17	36V	0A	.66A	5%	24W

GENERAL SPECIFICATIONS

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

Efficiency:	60% min at 24W output
Hold-up time:	5msec minimum
Line regulation:	±0.5% maximum at full load
Inrush current:	15 amps@115 VAC, or 30 amps@230 VAC at 25°C cold start
Withstand voltage:	3000 VAC from input to output 1500 VAC from input to ground 500 VAC from output to ground
Insulation resistance:	50 Mohm min. from output to ground
Operating temperature:	0°C to +70°C*
Storage temperature:	-40°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) FCC20780 Level B b) CISPR 22 Class B
Safety requirements:	Approved to: a) UL 1950 b) CSA C22.2 No. 234 c) EN60950

INPUT SPECIFICATIONS

Input voltage:	90 to 264 VAC
Input frequency:	47 to 63 Hz
Input current:	0.4A maximum
Safety ground:	
leakage current:	0.75mA max. @ 240VAC 50Hz

OUTPUT SPECIFICATIONS

Output voltage:	See rating chart
Output current:	See rating chart
Output power range:	0 to 24 Watts
Ripple and noise:	1% peak to peak maximum
Overcurrent protection:	All outputs protected to short circuit conditions
Temperature coefficient:	All outputs ±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 70°C

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. Output cable length is 72.0".
5. Optional output connectors available. Please consult factory.
6. Weight: 300 grams approx.

