NEW • DESKTOP POWER SUPPLIES

- UNIVERSAL INPUT
- COMPACT



SWITCHING POWER SUPPLY



DESCRIPTION

The HUP60 Series of AC-DC switching power supplies provide 60 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 interchangable cord for worldwide use. All models meet CISPR22 and FCC Class B emission limits, and are approved to UL, CSA, and TUV safety standards.



CE Mark

• Wide input voltage 90-264 VAC

Approved to UL, CSA, and TUV safety standards

OUTPUT VOLTAGE/CURRENT RATINGS CHART

	Output				Maximum Output
Model	Vnom	Imin	Imax	Tol.	Power
HUP60-10	5V	0A	10.0A	5%	50W
HUP60-10-1	7V	0A	8.0A	5%	56W
HUP60-11	10V	0A	6.0A	5%	60W
HUP60-12	12V	0A	5.0A	5%	60W
HUP60-13	15V	0A	4.0A	5%	60W
HUP60-13-1	18V	0A	3.3A	5%	60W
HUP60-14	24V	0A	2.5A	5%	60W
HUP60-16	30V	0A	2.0A	5%	60W
HUP60-17	36V	0A	1.6A	5%	60W
HUP60-18	48V	0A	1.2A	5%	60W

GENERAL SPECIFICATIONS

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

Efficiency: 65% min at 60W 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

50 Mohm min. from output to ground

Operating temperature: 0° C to +70°C* Storage temperature: -40° C to $+85^{\circ}$ C

Insulation resistance:

MTBF: 100,000 hours minimum at

full load at 25°C ambient

Meets conducted and radiated EMI requirements:

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: 1.6A 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 60 Watts

Ripple and noise: 1% peak to peak maximum Overvoltage protection: Provided on output #1 only; set at 112-132% of its nominal

output voltage

Overcurrent protection: All outputs protected to short

circuit conditions

Temperature coefficient: All outputs ±0.04%/°C maximum Maximum excursion of 4% or better Transient response:

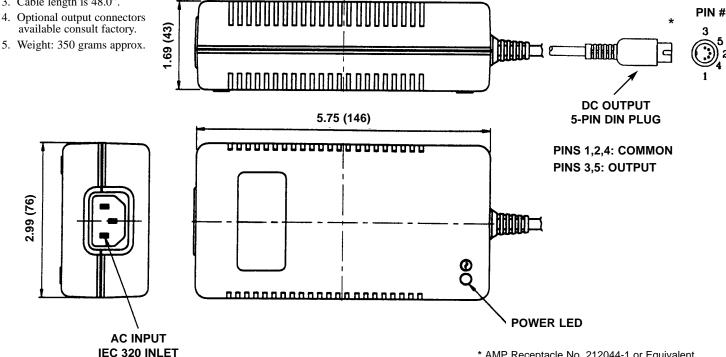
on all models. Recovers to 1% of final value within 500us after a

25% step load change.

MECHANICAL SPECIFICATIONS

NOTES:

- 1. Dimensions shown in inches (mm).
- 2. Tolerance 0.02 (0.5) maximum.
- 3. Cable length is 48.0".
- available consult factory.





Your Source of Power ...

* AMP Receptacle No. 212044-1 or Equivalent

^{*} Derate linearly from 100% load at 40°C to 50% load at 70°C