

- DESKTOP POWER SUPPLIES
- UNIVERSAL INPUT

**30 WATT**

**SWITCHING  
POWER SUPPLY**



**DESCRIPTION**

The PUP30 Series of AC/DC switching power supplies provide 30 watts of continuous output power. They are enclosed in a 94V-0 polycarbonate case with an IEC320 inlet connector to mate with an interchangeable cord for worldwide use. All models meet VDE class B and FCC class B emission limits, and are approved to UL, CSA, and TUV safety standards.



**FEATURES**

- 13 standard desktop models
- Single, dual or triple outputs
- Optional output connectors
- 100% burn-in
- Wide input voltage 85 to 264 VAC
- Input surge current protection
- Overvoltage protection
- Overcurrent protection

**OUTPUT VOLTAGE/CURRENT RATINGS CHART**

Model	Output #1				Output #2				Output #3				Maximum Output Power
	Vnom	Imin	Imax	Tol.	Vnom	Imin	Imax	Tol.	Vnom	Imin	Imax	Tol.	
PUP30-10	5V	0A	5.0A	3%			N/A				N/A		25W
PUP30-12	12V	0A	2.7A	2%			N/A				N/A		30W
PUP30-13	15V	0A	2.3A	2%			N/A				N/A		30W
PUP30-13-1	18V	0A	1.7A	2%			N/A				N/A		30W
PUP30-14	24V	0A	1.4A	2%			N/A				N/A		30W
PUP30-16	30V	0A	1.1A	2%			N/A				N/A		30W
PUP30-17	36V	0A	0.9A	2%			N/A				N/A		30W
PUP30-18	48V	0A	0.7A	2%			N/A				N/A		30W
PUP30-23	+5V	0.3A	3.0A	5%	+12V	0.1A	2.0A	5%			N/A		30W
PUP30-24	+5V	0.3A	3.0A	5%	+15V	0.1A	1.5A	5%			N/A		30W
PUP30-25	+5V	0.3A	3.0A	5%	+24V	0.1A	1.0A	5%			N/A		30W
PUP30-31	+5V	0.3A	3.0A	5%	+12V	0A	0.8A	5%	-12V	0A	0.8A	5%	30W
PUP30-32	+5V	0.3A	3.0A	5%	+15V	0A	0.8A	5%	-15V	0A	0.8A	5%	30W

**NOTE:** All multiple output units may be operated at no-load without damage. At no-load, output tolerance increases to 10%.

## GENERAL SPECIFICATIONS

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

Efficiency:	65% minimum at 30W output
Hold-up time:	10 msec minimum at 115 VAC
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:	10 Mohm minimum from output to ground
Operating temperature:	0 to 70°C*
Storage temperature:	-40 to +85°C
Mean time between failure:	100,000 hours minimum at full load at 25°C ambient
EMI requirements:	Meets conduction and radiated limits of: a) FCC 20780 Level B b) CISPR 22 (EN 55022) Level B
Safety requirements:	Meets or exceeds a) UL 1950 b) CSA C22.2 No. 234 c) IEC 950

## INPUT SPECIFICATIONS

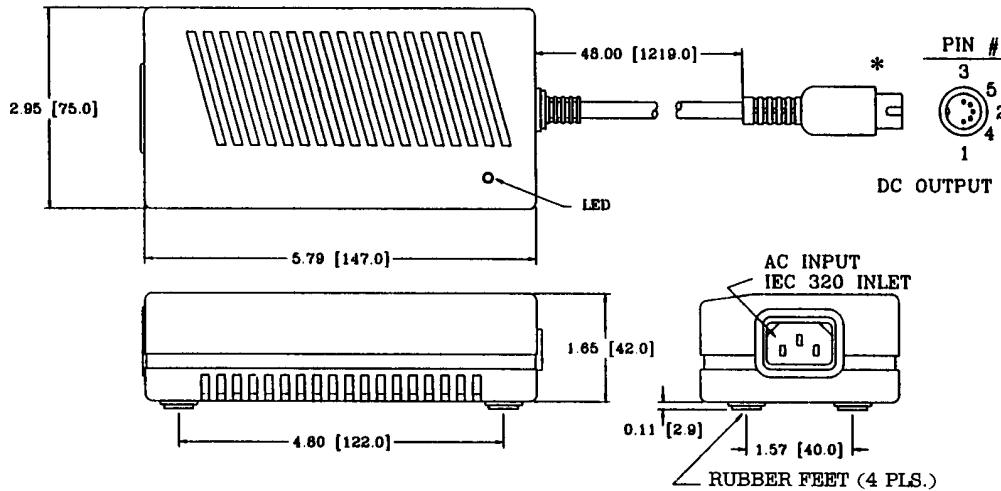
Input voltage:	85 to 264 VAC
Input frequency:	47 to 440 Hz
Input current:	0.85A (rms) for 115 VAC 0.50A (rms) for 230 VAC
Safety ground leakage current	0.85mA max. @ 240 VAC 50Hz

## OUTPUT SPECIFICATIONS

Output voltage:	See Rating Charts
Output current:	See Rating Charts
Output power range:	0 to 30 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
Transient response:	Maximum excursion of 4% on all models recovering to 1% of final value within 500 uS after a 25% step load change.

\* Derate linearly from 100% load at 50°C to 50% load at 70°C

## MECHANICAL SPECIFICATIONS



NOTE:

1. Dimensions shown in inches (mm)
2. Tolerance 0.02[0.5] maximum
3. Weight: 500 grams approx.
4. Consult factory for optional output connectors

\*AMP Receptacle No. 212044-1 or Equivalent

## PIN CHART

Model	PIN	1	2	3	4	5	
PUP30-10, PUP30-13-1, PUP30-17,	PUP30-12, PUP30-14, PUP30-18,	PUP30-13 PUP30-16	RETURN	RETURN	OUTPUT #1	RETURN	OUTPUT #1
PUP30-23,	PUP30-24,	PUP30-25	COMMON	COMMON	OUTPUT #1	COMMON	OUTPUT #2
PUP30-31,	PUP30-32,		COMMON	COMMON	OUTPUT #1	OUTPUT #3	OUTPUT #2



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