

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

60-130 WATT

**SWITCHING
POWER SUPPLY**



DESCRIPTION

The PUP80/130 Series of AC-DC switching power supplies provide 60-130 watts of continuous output power. They are enclosed in a 94V-1 rated polyphenylene-oxide case with an IEC320 inlet connector to mate with an interchangeable cord for worldwide use. All models meet CISPR 22 and FCC Class B emission limits and comply with UL, CSA, IEC and CE requirements.



FEATURES

- Built-in EMI filter
- Overvoltage protection
- Overcurrent protection
- Auto-ranging input
- Input surge current protection
- 100% burn-in at full load
- Optional on/off switch

OUTPUT VOLTAGE/CURRENT RATINGS CHART

Model	Output				Maximum Output Power
	Vnom	Imin	Imax	Tol.	
PUP80-10	5V	0A	12A	2%	60W
PUP80-10-1	7V	0A	8.6A	2%	60W
PUP80-11	10V	0A	6.0A	2%	60W
PUP80-12	12V	0A	6.7A	4%	80W
PUP80-13	15V	0A	5.3A	3%	80W
PUP80-13-1	18V	0A	4.5A	3%	80W
PUP80-14	24V	0A	3.4A	3%	80W
PUP80-16	30V	0A	2.7A	2%	80W
PUP80-17	36V	0A	2.3A	2%	80W
PUP80-18	48V	0A	1.7A	2%	80W
PUP130-12	12V	0A	10.8A	5%	130W
PUP130-13	15V	0A	8.6A	4%	130W
PUP130-13-1	18V	0A	7.2A	4%	130W
PUP130-14	24V	0A	5.4A	3%	130W
PUP130-16	30V	0A	4.3A	3%	130W
PUP130-17	36V	0A	3.6A	2%	130W
PUP130-18	48V	0A	2.7A	2%	130W

GENERAL SPECIFICATIONS

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

Efficiency:	70% minimum $V_o \geq 12V$ 65% minimum on other models
Hold-up time:	
PUP80 Series:	15msec minimum at 110 VAC
PUP130 Series:	10msec minimum at 110 VAC
Line regulation:	$\pm 0.5\%$ maximum at full load
Inrush current:	15A@115 VAC, or 30A@ 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°C to +60°C (PUP80 series)* 0°C to +70°C (PUP130 series)*
Storage temperature:	-40°C to +85°C
Relative humidity:	5% to 95% non-condensing
MTBF:	100,000 hours minimum at full load at 25°C ambient
EMI requirements:	In compliance with radiated and conducted limits of CISPR 22 (EN 55022) Class B and FCC Class B
Safety requirements:	Approved to: a) UL 1950 b) CSA C22.2 No. 234 c) IEC 950 (EN60950)
Switching frequency	60KHz to 75KHz

INPUT SPECIFICATIONS

Input voltage:	85 to 132 VAC or 170 to 264 VAC (auto-ranging)
Input frequency:	47 to 63 Hz
Input current:	
PUP80 Series:	1.8A (rms) for 115 VAC 1.0A (rms) for 230 VAC
PUP130 Series:	3.0A (rms) for 115 VAC 1.7A (rms) for 230 VAC
Safety ground:	0.40mA max. @ 110VAC 60 Hz
leakage current:	0.80mA max. @ 240VAC 50 Hz

OUTPUT SPECIFICATIONS

Total output power:	See rating charts
Ripple and noise:	1% peak to peak maximum
Overvoltage protection:	Set at 112-132% of its nominal output voltage
Overcurrent protection:	Protected under short circuit conditions
Temperature coefficient:	$\pm 0.04\%/^{\circ}C$ maximum
Transient response:	Maximum excursion of 4% or better on all models, recovering to 1% of final value 500us after a 25% step load change
Remote sense:	Optional, please consult factory

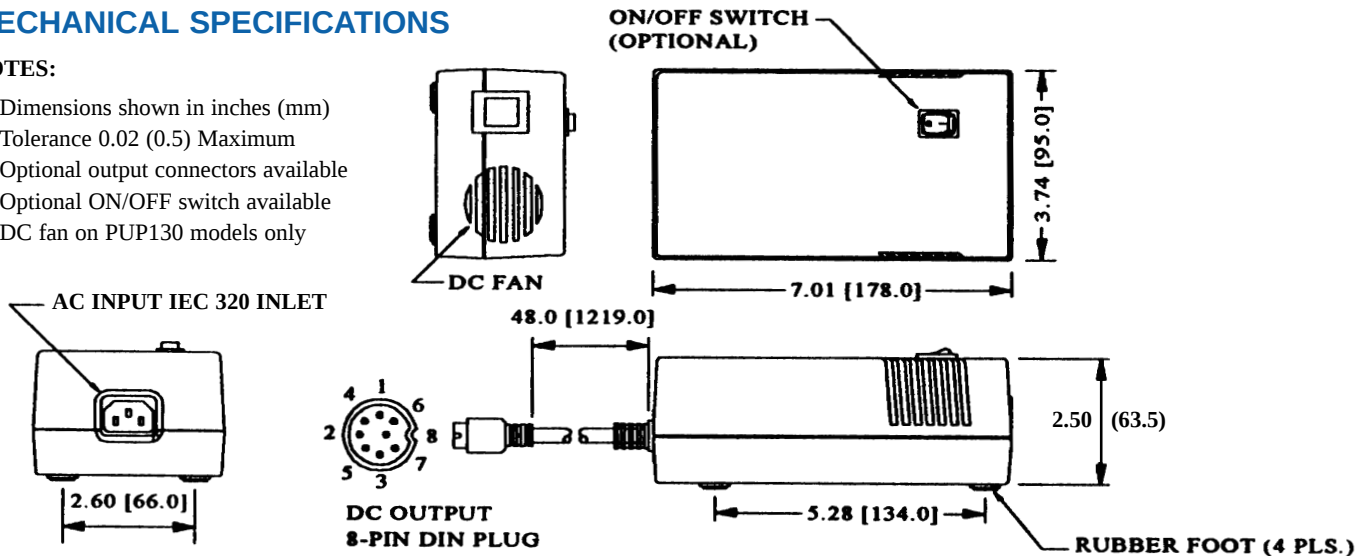
* PUP80: Derate linearly from 100% load at 40°C to 50% load at 60°C

* PUP130: Derate linearly from 100% load at 50°C to 50% load at 70°C

MECHANICAL SPECIFICATIONS

NOTES:

1. Dimensions shown in inches (mm)
2. Tolerance 0.02 (0.5) Maximum
3. Optional output connectors available
4. Optional ON/OFF switch available
5. DC fan on PUP130 models only



PIN CHART

Model	PIN	1	2	3	4	5	6	7	8
All Models		RETURN	RETURN	OUTPUT +V	RETURN	OUTPUT +V	RETURN	OUTPUT +V	OUTPUT +V