

- DESKTOP POWER SUPPLIES
- UNIVERSAL INPUT

**55 WATT**

**SWITCHING  
POWER SUPPLY**



#### DESCRIPTION

The PUP55 Series of AC/DC switching power supplies provide 55 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

- 100% burn-in
- Built-in EMI filter
- Small size, light weight
- Overvoltage protection
- Overcurrent protection
- Input surge current protection
- Wide input voltage 85 to 264 VAC
- Approved to UL, CSA, and TUV safety standards

#### 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.	
PUP55-10	5V	0A	8A	5%	N/A								40W
PUP55-12	12V	0A	4.6A	5%	N/A								55W
PUP55-13	15V	0A	3.7A	3%	N/A								55W
PUP55-13-1	18V	0A	3.1A	3%	N/A								55W
PUP55-14	24V	0A	2.3A	3%	N/A				N/A				55W
PUP55-16	30V	0A	1.9A	3%	N/A				N/A				55W
PUP55-17	36V	0A	1.6A	3%	N/A				N/A				55W
PUP55-18	48V	0A	1.2A	3%	N/A				N/A				55W
PUP55-23	+5V	1A	5A	5%	+12V	0.5A	3A	5%	N/A				45W
PUP55-24	+5V	1A	5A	5%	+15V	0.4A	2.5A	5%	N/A				45W
PUP55-25	+5V	1A	5A	5%	+24V	0.3A	2A	5%	N/A				45W
PUP55-31	+5V	1A	5A	5%	+12V	0.5A	3A	5%	-12V	0.1A	0.5A	10%	45W
PUP55-32	+5V	1A	5A	5%	+15V	0.4A	2.5A	5%	-15V	0.1A	0.5A	10%	45W

**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:	70% minimum at 55W output
Hold-up time:	10msec 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
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

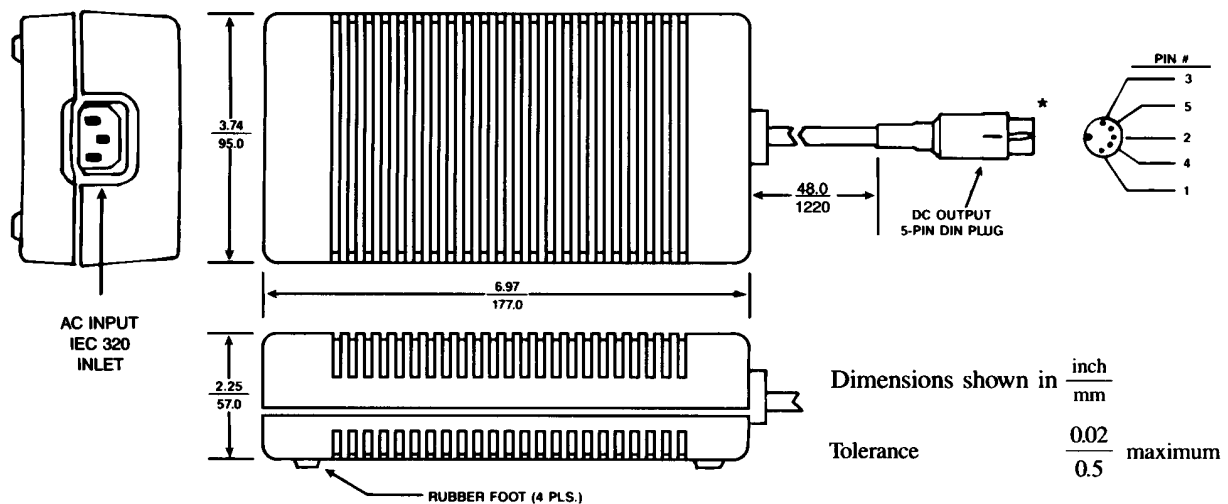
Input voltage:	85 to 264 VAC
Input frequency:	47 to 440 Hz
Input current:	1.5A (rms) for 115 VAC 0.9A (rms) for 230 VAC

## OUTPUT SPECIFICATIONS

Output voltage:	See Rating Charts
Output current:	See Rating Charts
Output power range:	0 to 55 Watts
Ripple and noise:	1% peak to peak maximum
Overvoltage protection:	Provided on #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

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

## MECHANICAL SPECIFICATIONS



\* AMP Receptacle No. 212044-1 or Equivalent  
(alternate connectors available).

## PIN CHART

Model	PIN	1	2	3	4	5
PUP55-10, PUP55-12, PUP55-13 PUP55-13-1, PUP55-14, PUP55-16 PUP55-17, PUP55-18		RETURN	RETURN	OUTPUT #1	RETURN	OUTPUT #1
PUP55-23, PUP55-24, PUP55-25		COMMON	COMMON	OUTPUT #1	COMMON	OUTPUT #2
PUP55-31, PUP55-32		COMMON	COMMON	OUTPUT #1	OUTPUT #3	OUTPUT #2