

• UNIVERSAL INPUT

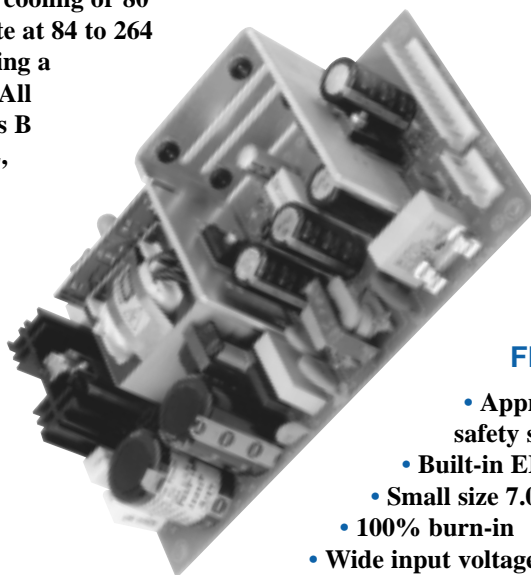
110 WATT

**SWITCHING
POWER SUPPLY**



DESCRIPTION

The PU110 Series of compact, open PCB constructed AC/DC power supplies are capable of delivering 110 watts of continuous power at 25 CFM forced air cooling or 80 watts at convection cooling. They operate at 84 to 264 input voltage without the need of changing a jumper. All outputs are fully regulated. All models meet VDE class B and FCC class B emission limits, and are approved to UL, CSA, and TUV safety standards.



FEATURES

- Approved to UL, CSA, and TUV safety standards
- Built-in EMI filter
- Small size 7.0" x 4.25" x 1.85"
- 100% burn-in
- Wide input voltage (85-264VAC)
- Input surge current protection
- Output overvoltage/overcurrent protection

OUTPUT VOLTAGE/CURRENT RATINGS CHART

Model	Output #1				Output #2				Output #3				Output #4				Maximum Output Power ²	
	Vnom	Imin	Imax	Tol.	Vnom	Imin	Imax	Ipeak ¹	Tol.	Vnom	Imin	Imax	Tol.	Vnom	Imin	Imax		Tol.
PU110-10-1A	3.3V	0A	22A	3%	N/A				N/A				N/A				110W	
PUI10-10A	5V	0A	22A	3%	N/A				N/A				N/A				110W	
PUI10-12A	12V	0A	9A	2%	N/A				N/A				N/A				110W	
PUI10-13A	15V	0A	7.5A	2%	N/A				N/A				N/A				110W	
PU110-14A	24V	0A	4.5A	2%	N/A				N/A				N/A				110W	
PU110-16A	30V	0A	3.6A	2%	N/A				N/A				N/A				110W	
PU110-23A	+5V	0A	10A	3%	+12V	0A	5A	9A	3%	N/A				N/A				110W
PU110-31A	+5V	0A	10A	3%	+12V	0A	5A	9A	3%	-12V	0A	1A	4%	N/A				110W
PU110-32A	+5V	0A	10A	3%	+15V	0A	4A	7.5A	3%	-15V	0A	1A	4%	N/A				110W
PU110-40A	+5V	0A	10A	3%	+12V	0A	5A	9A	3%	-12V	0A	1A	4%	-5V	0A	1A	4%	110W
PU110-42A	+5V	0A	10A	3%	+12V	0A	5A	9A	3%	-12V	0A	1A	4%	+12V	0A	1A	4%	110W
PU110-45A	+5V	0A	10A	3%	+12V	0A	5A	9A	3%	-12V	0A	1A	4%	+24V	0A	1A	4%	110W
PU110-45-1A	+5V	1.5A	10A	3%	+12V	0A	5A	9A	3%	-12V	0A	1A	4%	+24V	1.5A	3A	10%	110W
PU110-45-2A	+5V	0A	10A	3%	+24V	0A	3A	5A	3%	-12V	0A	1A	4%	+12V	0A	1A	4%	110W
PU110-46A	+5V	0A	10A	3%	+15V	0A	4A	7.5A	3%	-15V	0A	1A	4%	-5V	0A	1A	4%	110W

NOTE: (1) Peak output current with 10% maximum duty cycle for less than 60 seconds. Total peak power must not exceed 110 watts.

(2) 110 watts maximum at 25 CFM forced air cooling or 80 watts maximum at convection cooling.

GENERAL SPECIFICATIONS

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

Efficiency:	65% minimum at 110W output
Hold-up time:	12 msec 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
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 at full load at 25°C ambient
EMI requirements:	Meets conduction 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/115-370VDC
Input frequency:	47 to 440 Hz
Input current:	3.2A (rms) for 115 VAC 1.8A (rms) for 230 VAC

OUTPUT SPECIFICATIONS

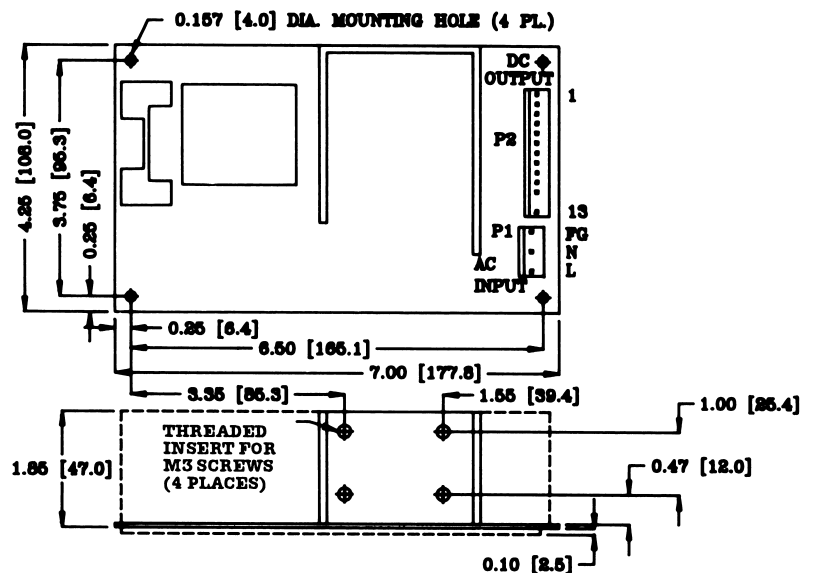
Output voltage:	See Rating Charts
Output current:	See Rating Charts
Output power range:	0 to 110 watts at 25 CFM forced air cooling, or 0 to 80 watts at convention cooling
Ripple and noise:	1% peak to peak maximum
Oversvoltage protection:	Provided on output #1 only; set at 112-132% of its nominal output voltage
Overcurrent protection:	All outputs protected to short circuit conditions
Temperature Coefficient:	All outputs ±0.04%/°C maximum

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

MECHANICAL SPECIFICATIONS

NOTE:

- Dimensions shown in inch (mm)
- Tolerance 0.02 (0.5) maximum
- Input connector mates with Molex housing 09-50-3051 and Molex 2878 series crimp terminal.
- Output connector mates with Molex housing 09-50-3131 and Molex 2878 series crimp terminal.
- Weight 600 grams approx.



PIN CHART

Model	PIN	1,2,3	4,5	6,7	8,9	10	11	12	13
PU110-10-1A, PU110-10A, PU110-12A, PU110-13A, PU110-14A, UP 110-16A		OUTPUT #1	RETURN	RETURN	OUTPUT #1	P.F.D.	N.C.	KEY	N.C.
PU110-23A		OUTPUT #1	COMMON RETURN	COMMON RETURN	OUTPUT #2	P.F.D.	N.C.	KEY	N.C.
PU110-31A, PU110-32A		OUTPUT #1	COMMON RETURN	COMMON RETURN	OUTPUT #2	P.F.D.	OUTPUT #3	KEY	N.C.
PU110-40A, PU110-42A, PU110-45A, PU110-45-1A, PU110-45-2A, PU110-46A		OUTPUT #1	COMMON RETURN	COMMON RETURN	OUTPUT #2	P.F.D.	OUTPUT #3	KEY S	OUTPUT #4



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