

• UNIVERSAL INPUT

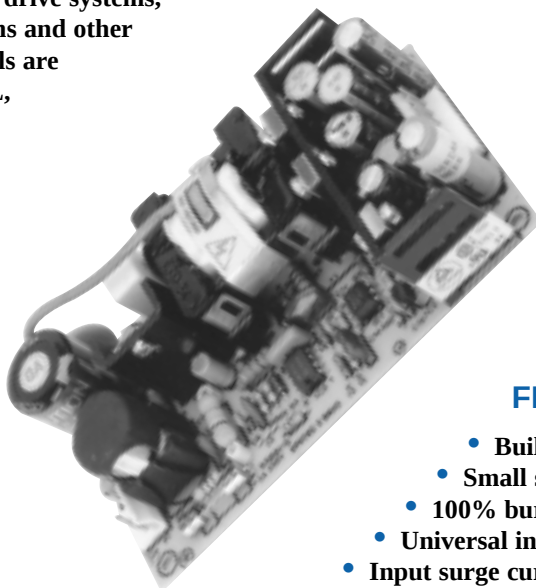
30 WATT

**SWITCHING
POWER SUPPLY**



DESCRIPTION

The PU30SL Series of compact, open PCB constructed AC/DC switching power supplies are capable of delivering 30 watts of continuous output power. They are ideally suited for use in today's CRT, disc drive systems, small microprocessor-based systems and other mixed logic applications. All models are approved to the safety limits of UL, CSA and TUV.



FEATURES

- Built-in EMI filter
- Small size, 2.76" x 5.12" x 1.2"
- 100% burn-in
- Universal input voltage (85-264 VAC)
- Input surge current protection
- Output overvoltage/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.	
PU30-10SL	5V	0A	5A	2%	N/A				N/A				25W
PU30-12SL	12V	0A	2.5A	1%	N/A				N/A				30W
PU30-13SL	15V	0A	2A	1%	N/A				N/A				30W
PU30-14SL	24V	0A	1.3A	1%	N/A				N/A				30W
PU30-23SL	+5V	0.3A	3A	3%	+12V	0.3A	1.5A	5%	N/A				30W
PU30-24SL	+5V	0.3A	3A	3%	+15V	0.2A	1.5A	5%	N/A				30W
PU30-25SL	+5V	0.3A	3A	3%	+24V	0.1A	1A	5%	N/A				30W
PU30-30SL	+5V	0.3A	3A	3%	+12V	0.3A	1.5A	5%	-5V	.05A	0.2A	10%	30W
PU30-31SL	+5V	0.3A	3A	3%	+12V	0.3A	1.5A	5%	-12V	.05A	0.2A	10%	30W
PU30-32SL	+5V	0.3A	3A	3%	+15V	0.2A	1.5A	5%	-15V	.05A	0.2A	10%	30W
PU30-33SL	+5V	0.3A	3A	3%	+15V	0.2A	1.5A	5%	-12V	.05A	0.2A	10%	30W

NOTE: All multi-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:	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 minimum 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:	Approved to: a) UL 1950 b) CSA C22.2 No. 234 c) TUV per EN60950 (IEC 950)

INPUT SPECIFICATIONS

Input voltage:	85 to 264 VAC/115-280VDC
Input frequency:	47 to 440 Hz
Input current:	0.80A (rms) for 115 VAC 0.50A (rms) for 230 VAC

OUTPUT SPECIFICATIONS

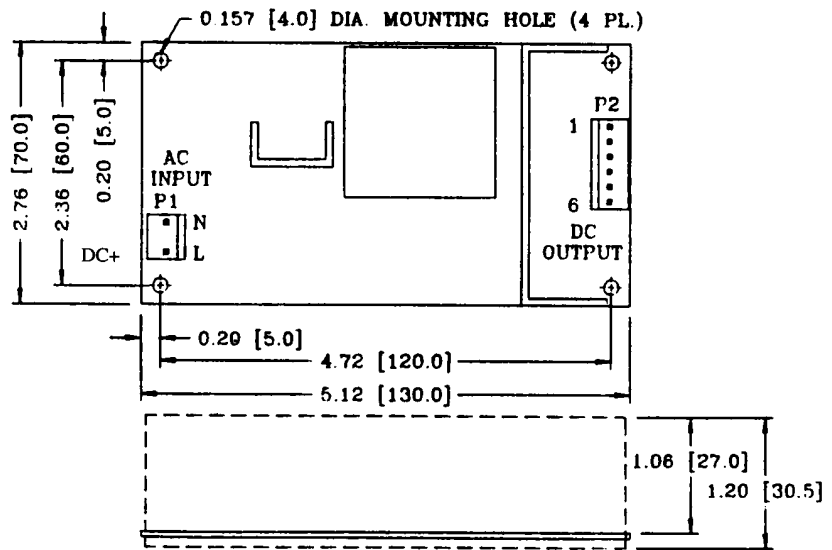
Output voltage:	See Rating Charts
Output current:	See Rating Charts
Output power range:	0 to 30 Watts
Ripple and noise:	1% peak to peak maximum
Overvoltage protection:	Provided on output #1 only: set at 112-132% of its nominal output voltage
Overcurrent protection:	All outputs protected to short circuit conditions
Temperature Coefficient:	All outputs ±0.04%/°C maximum

*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. Input connector mates with Molex housing 09-50-3031 and Molex 2878 series crimp terminal.
4. Output connector mates with Molex housing 09-50-3061 and Molex 2878 series crimp terminal.
5. Weight 280 grams approx.



PIN CHART

Model	PIN	1	2	3	4	5	6
PU30-10SL, PU30-12SL PU30-13SL, PU30-14SL	OUTPUT #1	OUTPUT #1	OUTPUT #1	RETURN	RETURN	RETURN	
PU30-23SL, PU30-24SL PU30-25SL	OUTPUT #1	OUTPUT #1	COMMON RETURN	COMMON RETURN	N.C.	OUTPUT #2	
PU30-30SL, PU30-31SL PU30-32SL, PU30-33SL	OUTPUT #1	OUTPUT #1	COMMON RETURN	COMMON RETURN	OUTPUT #3	OUTPUT #2	



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