

**DESCRIPTION**

The PMP30 series of AC/DC switching power supplies are for 25 to 30 watts of continuous output power. They are enclosed in a 94V-1 rated polyphenylene-oxide case with an IEC320 inlet to mate with interchangeable cord for world-wide use. All models meet CISPR 11 and FCC class B emission limits, and are designed for medical applications, not for life supporting equipment.

FEATURES

- 10 standard desktop models.
- Optional output connectors
- Optional on/off switch
- 100% burn-in at full rated load
- Input surge current protection
- Overvoltage protection
- Overcurrent protection
- Short-circuit protection with auto-recovery
- Compliant with RoHS requirements

INPUT SPECIFICATIONS

Input voltage :	85 to 264VAC
Input frequency:	47 to 63Hz
Input current :	0.80A (rms) for 115VAC 0.50A (rms) for 230VAC
Earth leakage Current:	90uA max. @ 115VAC, 60Hz 150uA max. @230VAC, 50Hz

OUTPUT SPECIFICATIONS

Output voltage/current :	See rating chart
Output power range :	30 watts maximum
Ripple and noise :	1% peak to peak maximum
Overvoltage protection :	Set at 112-132% of the higher extreme of its nominal output voltage
Overcurrent protection :	The output is protected to short circuit conditions
Temperature coefficient :	All outputs $\pm 0.04\%$ / $^{\circ}\text{C}$ maximum
Transient response :	Maximum excursion of 4% or better on all models, recovering to 1% of final value within 500us after a 25% step load change

ENVIRONMENTAL SPECIFICATIONS

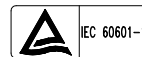
Operating temperature:	0 $^{\circ}\text{C}$ to +70 $^{\circ}\text{C}$
Storage temperature:	-40 $^{\circ}\text{C}$ to +85 $^{\circ}\text{C}$
Relative humidity:	5% to 95% non-condensing
Derating:	Derate from 100% at +50 $^{\circ}\text{C}$ linearly to 50% at +70 $^{\circ}\text{C}$

PMP30 SERIES

CE (LVD)
RoHS

**Safety Standard Approvals:**

UL 2601-1, CSA C22.2 No. 601.1
File No. E178020



TÜV EN60601-1
Certificate No. T2054090

GENERAL SPECIFICATIONS

Switching frequency :	70KHz $\pm 5\text{KHz}$
Efficiency :	70% minimum on all models with output voltage $\geq 7\text{V}$ or 65% minimum on the others
Hold-up time:	20ms minimum at 115VAC
Line regulation:	$\pm 0.5\%$ maximum at full load
Inrush current:	15 amps @ 115VAC or 30 amps @ 230VAC at 25 $^{\circ}\text{C}$ cold start
Withstand voltage:	4000VAC from input to output 1500VAC from input to ground 500VAC from output to ground
MTBF:	400,000hours minimum at full load at 25 $^{\circ}\text{C}$ ambient, calculated per MIL-HDBK-217F
EMC Performance (EN60601-1-2: 2001)	
EN55011:	Class B conducted, Class B radiated
FCC:	Class B conducted, Class B radiated
VCCI:	Class B conducted, Class B radiated
EN61000-3-2:	Harmonic distortion, Class A and D
EN61000-3-3:	Line flicker
EN61000-4-2:	ESD, $\pm 8\text{KV}$ air and $\pm 6\text{KV}$ contact
EN61000-4-3:	Radiated immunity, 3V/m for 80~2500MHz
EN61000-4-4:	Fast transient/burst, $\pm 2\text{KV}$
EN61000-4-5:	Surge, $\pm 1\text{KV}$ diff., $\pm 2\text{KV}$ com.
EN61000-4-6:	Conducted immunity, 3Vrms
EN61000-4-8:	Magnetic field immunity, 3A/m
EN61000-4-11:	Voltage dips, 30% reduction for 500ms, 60% reduction for 100ms and >95% reduction for 10ms

UNIVERSAL INPUT

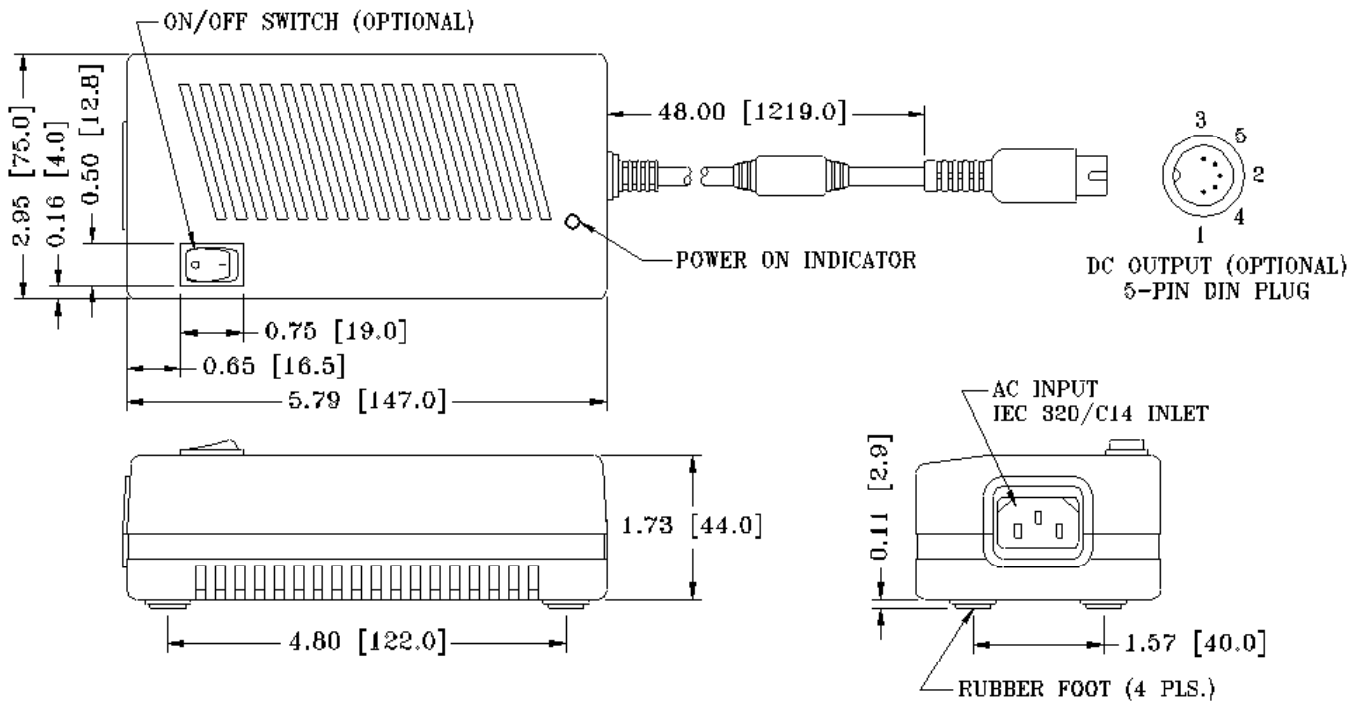
PMP30 SERIES

OUTPUT VOLTAGE/CURRENT RATING CHART

MODEL	Vnom.	Imin.	Output		Tol.	Maximum Output Power
				I _{max.}		
PMP30-10	5-6V	0A		5.0A	5%	25W
PMP30-10-1	6-8V	0A		4.5A	5%	30W
PMP30-11	9-11V	0A		3.4A	2%	30W
PMP30-12	11-13V	0A		2.8A	2%	30W
PMP30-13	13-17V	0A		2.4A	2%	30W
PMP30-13-1	17-21V	0A		1.8A	2%	30W
PMP30-14	21-27V	0A		1.5A	2%	30W
PMP30-16	27-33V	0A		1.2A	2%	30W
PMP30-17	33-39V	0A		1.0A	2%	30W
PMP30-18	48V	0A		0.7A	2%	30W

NOTE: The output voltage can be adjusted by user in the stated range, or set by factory to a wanted value in the range upon the request of a user when ordering.

MECHANICAL SPECIFICATIONS



NOTES:

1. Dimensions shown in inch [mm]
2. Tolerance 0.02[0.5] maximum
3. Weight: 0.55 kgs. (1.21lbs.) approx.
4. See **pages 6-1 to 6-8** for optional output connectors. Add the suffix assigned for a selected connector to a wanted model number, e.g. PMP30-12-B1, for ordering.

PIN CHART

MODEL	PIN	1	2	3	4	5
		PMP30-10 PMP30-11 PMP30-13 PMP30-14 PMP30-17	PMP30-10-1 PMP30-12 PMP30-13-1 PMP30-16 PMP30-18	RETURN	RETURN	OUTPUT