DESCRIPTION

The PUP270 series of AC/DC switching power supplies are for 240-270 watts of continuous output power. They are enclosed in a 94V-0 rated plastic cases with an IEC320/C14 inlet to mate with interchangeable cord for world-wide use. All models meet EN 55032, EN55035 and FCC class B emission limits, and comply with UL, CSA, IEC and CE requirements.

PUP270 SERIES

CE
RoHS
VI

FEATURES

- No load power consumption less than 0.15W
- Compliant with DoE level VI / CoC EPS V5 tier 2 requirements
- Meet energy star EPS2.0 /ErP lot 7
- With PFC circuit
- Operating altitude up to 5000 meters
- Wide input range 90 to 264 VAC
- 100% burn-in
- Overvoltage protection (latch)
- Overcurrent protection
- Over temperature protection (latch)
- Compliant with RoHS requirements

SAFETY STANDARD APPROVALS

UL 62368-1, CSA C22.2 No. 62368-1
File No. E190414

TÜV EN 62368-1

INPUT SPECIFICATIONS

Input voltage:	90-264 VAC
Input frequency:	47-63 Hz
Input current:	2.7 A (rms) for 115 VAC
	1.4 A (rms) for 230 VAC
Earth leakage current:	3.5 mA max. @ 264 VAC, 63 Hz

OUTPUT SPECIFICATIONS

Output voltage /current:	See rating chart.
Maximum output power:	See rating chart.
Ripple and noise:	See rating chart.
Overvoltage protection:	Provided and set at 110-140% of its nominal output voltage
Overcurrent protection:	Protected to short circuit conditions
Temperature coefficient:	±0.04% /℃ maximum
Transient response:	Maximum excursion of 4% or better on all models, recovering to 1% of final value within 500 us after a 25% step load change

ENVIRONMENTAL SPECIFICATIONS

Operating temperature:	0℃ to +40℃
Storage temperature:	-20℃ to +80℃
Operating humidity:	20% to 80% non-condensing
Storage humidity:	10% to 90% non-condensing
Temperature derating:	Derate from 100% at +40℃ linearly to 50% at +60℃

GENERAL SPECIFICATIONS

|	
Power factor:	0.98 Typical at 115 VAC
Efficiency:	89% min. at full load
Hold-up time:	10 ms minimum at 100 VAC
Line regulation:	±0.5% maximum at full load
Inrush current:	90 A @ 115 VAC or 180 A @ 230 VAC, at 25℃ cold start
Withstand voltage:	4242 VDC from input to output, 2500 VDC from input to ground,
MTBF:	300,000 hours at full load at 25℃ ambient , calculated per SR332
EMC Performance	
EN55032:	Class B conducted, class B radiated
EN61000-3-2:	Harmonic distortion, Class D
EN61000-3-3:	Line flicker
EN55035	
EN61000-4-2:	ESD, ±15 KV air and ±8 KV contact
EN61000-4-3:	Radiated immunity, 3 V/m
EN61000-4-4:	Fast transient/burst, ±1 KV
EN61000-4-5:	Surge, ±1 KV diff., ±2 KV com.
EN61000-4-6:	Conducted immunity, 3 Vrms
EN61000-4-8:	Magnetic field immunity, 1 A/m
EN61000-4-11:	Voltage dip immunity, 30% reduction for 500 ms, and >95% reduction for 10 ms

OUTPUT VOLTAGE/CURRENT RATING CHART

| | Output | | | | | | Average Active Efficiency (typical) @ 115 / 230 Vac |
| | | Min. Current | Max. Current | Tol. | Ripple & Noise[1] | Max. Power | |
Model	V1						
PUP270-12-S	12 V	0 A	20.00 A	±5%	240 mV	240 W	89 /89%
PUP270-13-2-S	19 V	0 A	14.21 A	±5%	300 mV	270 W	89 /89%
PUP270-14-S	24 V	0 A	11.25A	±5%	300 mV	270 W	89 /89%
PUP270-18-S	48 V	0 A	5.62 A	±5%	500 mV	270 W	89 /89%
PUP270-19-S	54 V	0 A	5.00 A	±5%	550 mV	270 W	89 /89%

NOTES:
1. Ripple and noise is maximum peak to peak voltage value measured at output within 20 MHz bandwidth, at rated line voltage and output load ranges, and with a 47 µF electrolytic capacitor in parallel with a 0.1 µF ceramic capacitor across the output.

MECHANICAL SPECIFICATIONS
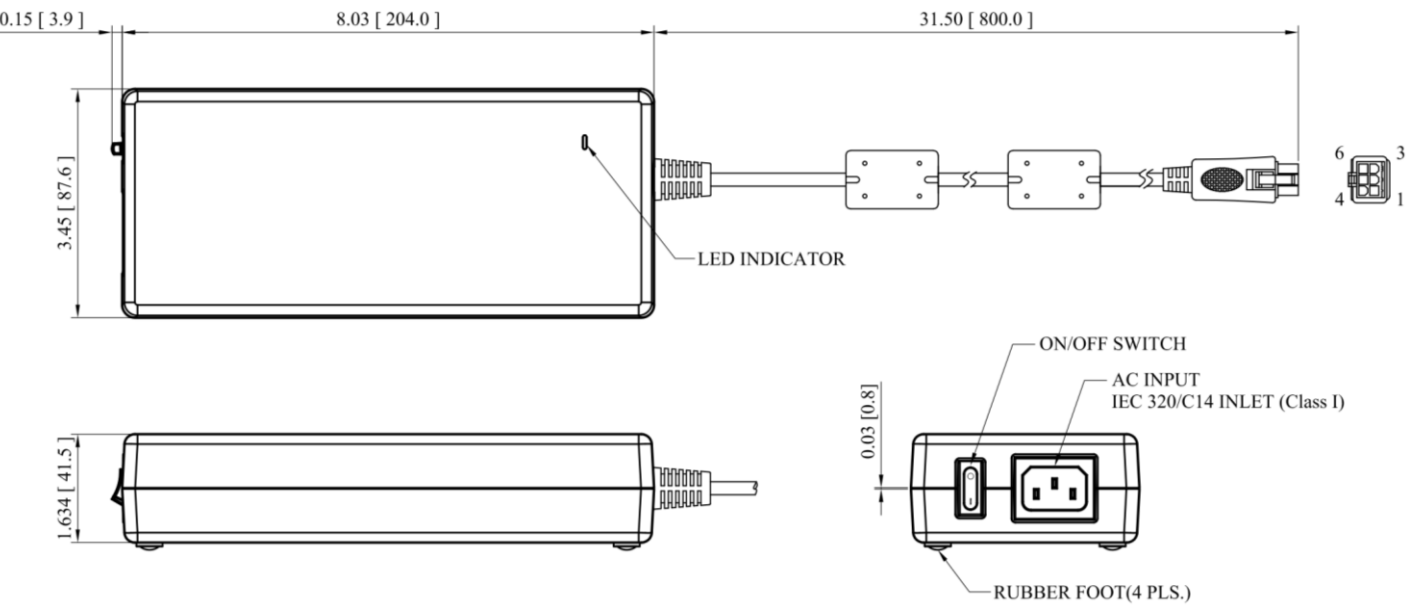
NOTES:
1. Dimensions shown in inches [mm]
2. Tolerance 0.02 [0.5] maximum
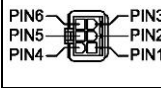3. Weight: 1100 grams (2.425 lbs.) approx.
4. Output connector is JWT Mini - Fit receptacle, P/N: C4202H00-2x3P with female terminal C4202T2*-2 or equivalent, mating with JWT socket C4201H0*-2x3P and male terminal C4201T2*-2 or equivalent. It also mates with JWT headers C4201WR*-2x3P, C4201WV*-2x3P, or equivalent.
5. V1 return (-) is electrically connected to incoming Earth Ground through two 1.2K ohm resistors as standard.

OUTPUT POWER DERATING CURVE
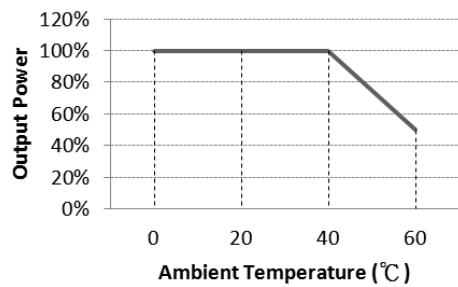
PIN CHART

PIN	1	2	3	4	5	6
	+V1	+V1	+V1	V1 Return	V1 Return	V1 Return