

DESCRIPTION

The PUP180N3 series of AC/DC switching power supplies are for 180 watts of continuous output power. They are enclosed in a 94V-0 rated plastic case with an inlet of the IEC320/C14 or IEC320/C6 to mate with interchangeable cord for world-wide use. All models meet EN55032 and FCC class B emission limits, and comply with UL, CSA, IEC and CE requirements.

FEATURES

- No load power consumption less than 0.15 W
- Compliant with DoE level VI requirements
- Meet Energy Star EPS2.0 /ErP EC No 278/2009 (Lot 7)
- Meet EU CoC EPS V5 Tier 2
- Operating altitude up to 5000 meters
- Overvoltage protection (latch)
- Short-circuit protection (auto-recovery)
- Overpower protection (auto-recovery)
- Over temperature protection (latch)
- High Efficiency \geq 89%
- With PFC circuit
- 100% burn-in at full rated load
- Compliant with RoHS requirements

INPUT SPECIFICATIONS

Input voltage:	90-264 VAC
Input frequency:	47-63 Hz
Input current:	1.8 A (rms) for 115 VAC
	0.9 A (rms) for 230 VAC
Earth Leakage current:	250 µA max. @ 264 VAC, 60 Hz

OUTPUT SPECIFICATIONS

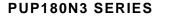
Output voltage /current: Maximum output power: Ripple and noise: Overvoltage protection:

Overcurrent protection:

Temperature coefficient: Transient response: See rating chart. See rating chart. 350 mV peak to peak maximum Set at 125-155% of its nominal output voltage All models protected to short circuit conditions (auto-recovery) All outputs $\pm 0.04\%$ /°C maximum 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: Storage temperature: Operating humidity: Storage humidity: Temperature derating: $0^\circ\mathbb{C}$ to $+40^\circ\mathbb{C}$ -20 $^\circ\mathbb{C}$ to $+80^\circ\mathbb{C}$ 20% to 80% non-condensing 10% to 90% non-condensing Derate from 100% at $+40^\circ\mathbb{C}$ linearly to 50% at $+60^\circ\mathbb{C}$





CE



SAFETY STANDARD APPROVALS



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



TÜV EN 62368-1

GENERAL SPECIFICATIONS

Hold-up time: 10 ms minimum at 100 VAC Turn on delay time: 3 s maximum at 100 VAC Power factor: 0.95 typical Efficiency: 89% minimum at 110 VAC or 240 VAC. Line regulation: ±0.5% maximum at full load Inrush current: 100 A @ 115 Vac or 200 A @ 230 Vac at 25 °C cold start Withstand voltage: 4242 VDC from input to output 2500 VDC from input to ground MTBE: 200,000 hours at full load at 25°C 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 EN55024 ESD,±8 KV air and ±4 KV contact EN61000-4-2: 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

Voltage dip immunity, 30% reduction for 500 ms, and >95% reduction for 10 ms

EN61000-4-11:

OUTPUT VOLTAGE/CURRENT RATING CHART

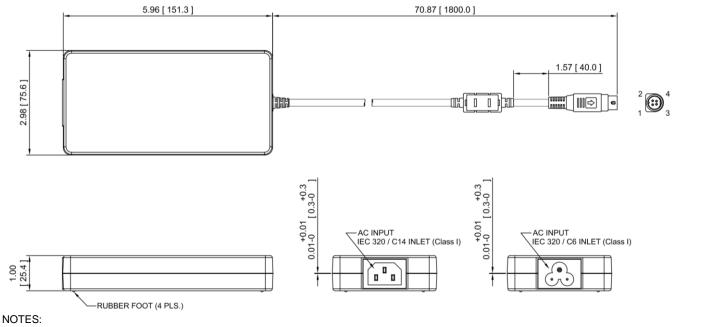
	Output						Average Active
Model ⁽¹⁾	V1	Min. Current	Max. Current	Tol.	Ripple & Noise ⁽²⁾	Max. Power	efficiency (typical) @ 115 / 230 Vac
PUP180N3-13-2	19 V	0 A	9.47 A	±5%	350 mV	180 W	89 /91%
PUP180N3S-13-2	19 V	0 A	9.47 A	±5%	350 mV	180 W	89 /91%
PUP180N3-14	24 V	0 A	7.50 A	±5%	350 mV	180 W	90 /92%
PUP180N3S-14	24 V	0 A	7.50 A	±5%	350 mV	180 W	90 /92%
PUP180N3-19	54 V	0 A	3.34 A	±5%	350 mV	180 W	91 /93%
PUP180N3S-19	54 V	0 A	3.34 A	±5%	350 mV	180 W	91 /93%

NOTES:

PUP180N3 models are equipped with IEC320/C14 inlet, and PUP180N3S models are equipped with IEC320/C6 inlet. 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 2. ranges, and with a 47 µF tantalum capacitor in parallel with a 0.1 µF ceramic capacitor across the output.

MECHANICAL SPECIFICATIONS



1. Dimensions shown in inches [mm]

2. Tolerance 0.02 [0.5] maximum

3. Weight: 428 grams (0.95 lbs.) approx.

V1 return (-) is electrically connected to incoming Earth Ground through 1K ohm resistor as standard. 4.

PIN CHART

PIN NO.	1	2	3	4	SHELL OF Connector
Polarity	+V1	+ V 1	V1 Return	V1 Return	V1 Return