



PROTEK POWER

PUP15/25N3 AC/DC Switching Power Supply Series (15-25W)

Features:

- No load power consumption less than 0.075W
- Compliant with DoE level VI requirements
- Meets energy star EPS2.0/ErP lot 7
- Meets EU CoC EPS V5 Tier2
- Operating altitude up to 5000 meters
- Overvoltage protection (auto-recovery)
- Short-circuit protection (auto-recovery)
- Overcurrent protection (auto-recovery)
- High Efficiency
- 100% burn-in at full rated load
- Compliant with RoHS requirements
- Meets LPS requirements



CE
RoHS



Description:

The PUP15/25N3 series of AC-DC switching power supplies are for 15-25 watts of continuous output power. They are enclosed in a 94V-0 rated plastic case with an IEC320/C14 inlet to mate with interchangeable cord for world-wide use. All models meet EN55032, EN55024 and FCC class B emission limits and comply with UL, CSA, IEC and CE requirements.

Part Number	Output Voltage	Min. Current	Max. Current	Tolerance	Ripple & Noise	Wattage	Average Efficiency @115/230 Vac
PUP15N3-10	5V	0A	3.00A	±5%	150mV	15W	83/83%
PUP25N3-12	12V	0A	2.08A	±5%	180mV	25W	87/88%
PUP25N3-13-2	19V	0A	1.32A	±5%	300mV	25W	88/89%
PUP25N3-14	24V	0A	1.04A	±5%	300mV	25W	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.



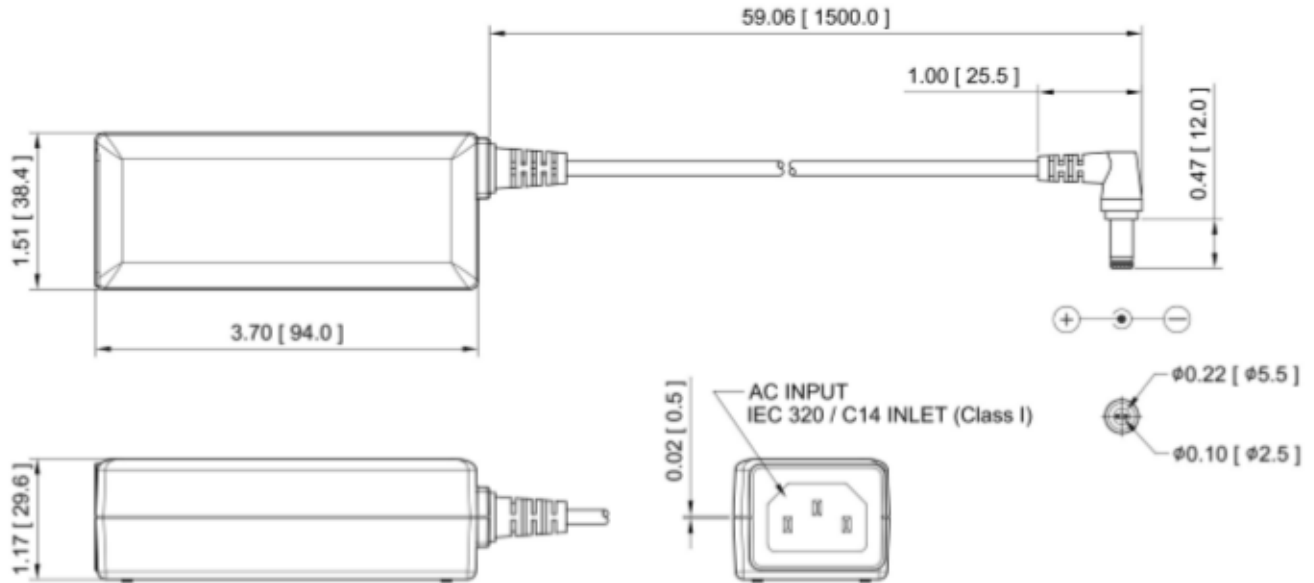
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Specifications	
Safety Standards & EMC Specifications	
Safety Standard Approvals	UL 62368-1 File No. E190414 CSA C22.2 No. 62368-1 TÜV EN 62368-1
EMI Standard	EN55032, FCC, and VCCI Class B (radiated and conducted)
EMC Performance	EN61000-3-2: Harmonic distortion, Class A and D EN61000-3-3: Line flicker EN55024 EN61000-4-2: ESD, ±8 KV air and ±4 KV contact EN61000-4-3: Radiated immunity, 3V/m EN61000-4-4: Fast transient/burst, ±1 KV EN61000-4-5: Surge, ±1 KV diff., ±2 KV com. EN61000-4-6: Conducted immunity, 3Vrms EN61000-4-8: Magnetic field immunity, 1A/m EN61000-4-11: Voltage dip immunity, 30% reduction for 500ms, and >95% reduction for 10ms
Input Specifications	
Input Voltage Range	90 to 264 Vdc
Input Frequency Range	47 to 63Hz
Input Current	0.8A (rms) for 115 VAC or 0.45A (rms) for 230 VAC Maximum
Earth Leakage Current	250µA max. @ 264 VAC, 60Hz
Output Specifications	
Output Connection Type	2.5mm ID x 5.5mm OD x 12mm L, Center Positive, RA Barrel
Over Voltage Protection	Set at 115–200% of its nominal output voltage
Over Current Protection	Protect to short circuit conditions
Temperature Coefficient	All outputs ±0.04%/°C maximum
Transient Response	Maximum excursion of 4% or better on all models, recovering to 1% of final value within 500 µs after a 25% step load change
Environmental Specifications	
Operating Temperature	0°C → +40°C (41°C to 60°C with derating)
Storage Temperature	-20°C → 80°C
Operating Humidity	20% to 80% non-condensing
Storage Humidity	10% to 90% non-condensing
General Specifications	
Hold-up Time	8ms minimum at 115 VAC
Turn on Delay Time	3s maximum at 115 VAC
Line Regulation	±0.5% maximum at full load
Inrush Current	30A @ 115 Vac or 60A @ 230 Vac at 25°C cold start
Withstand Voltage	4242 VDC input to output, 2500 VDC input to ground
MTBF	100,000 hours at full load at 25°C ambient, calculated per SR332



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Diagrams



NOTES:

1. Dimensions shown in inches [mm]
2. Tolerance 0.02 [0.5] maximum
3. Weight: 112 grams (0.25 lbs.) approx.
4. Output return (-) is electrically connected to incoming Earth Ground through a 0 ohm resistor as standard.
5. The length of output cable for PUP15N3-10 is 39.37 [1000.0].

PIN CHART

MODEL	CONNECTION
Polarity	

OUTPUT POWER DERATING CURVE

