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.

PUP15/25N3 SERIES

CE

RoHS

VI

FEATURES

- No load power consumption less than 0.075w
- Compliant with DoE level VI requirements
- Meet energy star EPS2.0 /ErP lot 7
- Meet 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
- Meet LPS requirements

SAFETY STANDARD APPROVALS

c UL us LISTED — UL 62368-1, CSA C22.2 No. 62368-1
File No. E190414

TÜVRheinland ZERTIFIZIERT / GS geprüfte Sicherheit — TUV EN 62368-1

INPUT SPECIFICATIONS

Input voltage:	90-264 VAC
Input frequency:	47-63 Hz
Input current:	0.8A (rms) for 115 Vac 0.45A (rms) for 230 Vac
Earth Leakage current:	250 μA max. @ 264 VAC, 60 Hz

OUTPUT SPECIFICATIONS

Output voltage /current:	See rating chart.
Maximum output power:	See rating chart.
Ripple and noise:	See rating chart.
Overvoltage protection:	Set at 115-200% of its nominal output voltage
Overcurrent protection:	Protect to short circuit conditions
Temperature coefficient:	All outputs ±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

GENERAL SPECIFICATIONS

Hold-up time:	8 ms minimum at 115 VAC
Turn on delay time:	3 s maximum at 115 VAC
Efficiency:	85% up at full load
Line regulation:	±0.5% maximum at full load
Inrush current:	30 A @ 115 VAC or 60 A @ 230 VAC at 25℃ cold start
Withstand voltage:	4242 VDC from input to output, 2500 VDC from input to ground,
MTBF:	100,000 hours at full load at 25℃ ambient, calculated per SR332

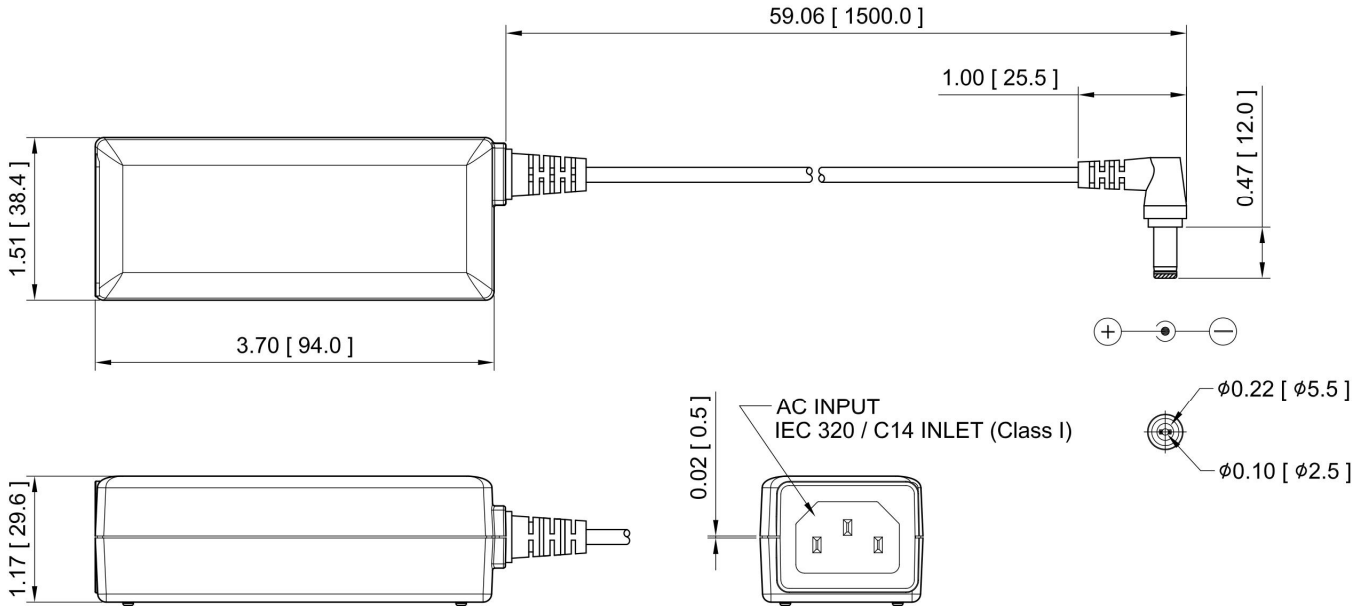
EMC Performance	
EN55032:	Class B conducted, Class B radiated
FCC:	Class B conducted, Class B radiated
VCCI:	Class B conducted, Class B radiated
EN61000-3-2:	Harmonic distortion, Class A and D
EN61000-3-3:	Line flicker
EN55024	
EN61000-4-2:	ESD,±8 KV air and ±4 KV contact
EN61000-4-3:	Radiated immunity, 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

Model	Output						Average efficiency (typical) @ 115 / 230 Vac
	V1	Min. Current	Max. Current	Tol.	Ripple & Noise(1)	Max. Power	
PUP15N3-10	5 V	0 A	3.00 A	±5%	150 mV	15 W	83 /83%
PUP25N3-12	12 V	0 A	2.08 A	±5%	180 mV	25 W	87 /88%
PUP25N3-13-2	19 V	0 A	1.32 A	±5%	300 mV	25 W	88 /89%
PUP25N3-14	24 V	0 A	1.04 A	±5%	300 mV	25 W	89 /89%

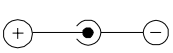
NOTES:
1. Ripple and noise is maximum peak-to-peak voltage value measured at output within 20 MHz bandwidth, at rated line voltage and output load ranges, and with a 47 µF electrolytic capacitor in parallel with a 0.1 µF ceramic capacitor across the output.

MECHANICAL SPECIFICATIONS



NOTES:
1. Dimensions shown in inches [mm]
2. Tolerance 0.02 [0.5] maximum
3. Weight: 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	

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TT Electronics:

PUP25N3-12 PUP25N3-13-2 PUP25N3-10 PUP25N3-14