

## 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.

## 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

## 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  $\pm 0.04\%$  / $^{\circ}\text{C}$  maximum  
 Transient response: Maximum excursion of 4% or better on all models, recovering to 1% of final value within 500 us after a 25% step load change

## ENVIRONMENTAL SPECIFICATIONS

Operating temperature:  $0^{\circ}\text{C}$  to  $+40^{\circ}\text{C}$   
 Storage temperature:  $-20^{\circ}\text{C}$  to  $+80^{\circ}\text{C}$   
 Operating humidity: 20% to 80% non-condensing  
 Storage humidity: 10% to 90% non-condensing

## PUP15/25N3 SERIES



## SAFETY STANDARD APPROVALS



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



TUV EN 62368-1

## 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:  $\pm 0.5\%$  maximum at full load  
 Inrush current: 30 A @ 115 VAC or 60 A @ 230 VAC at  $25^{\circ}\text{C}$  cold start  
 Withstand voltage: 4242 VDC from input to output, 2500 VDC from input to ground,  
 100,000 hours at full load at  $25^{\circ}\text{C}$  ambient, calculated per SR332  
 MTBF:

## 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,  $\pm 8$  KV air and  $\pm 4$  KV contact  
 EN61000-4-3: Radiated immunity, 3 V/m  
 EN61000-4-4: Fast transient/burst,  $\pm 1$  KV  
 EN61000-4-5: Surge,  $\pm 1$  KV diff.,  $\pm 2$  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

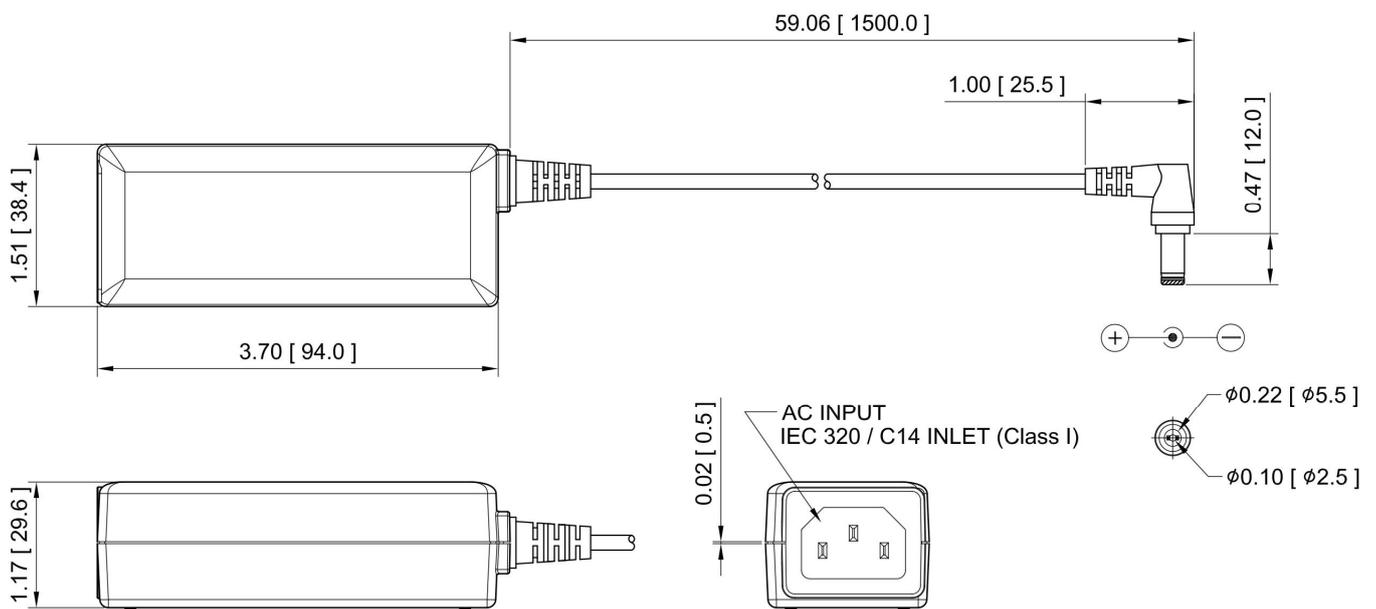
## OUTPUT VOLTAGE/CURRENT RATING CHART

Model	Output						Average efficiency (typical) @ 115 / 230 Vac
	V1	Min. Current	Max. Current	Tol.	Ripple & Noise <sup>(1)</sup>	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:**

- 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:**

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

## PIN CHART

MODEL	CONNECTION
Polarity	

## Данный компонент на территории Российской Федерации

### Вы можете приобрести в компании MosChip.

Для оперативного оформления запроса Вам необходимо перейти по данной ссылке:

<http://moschip.ru/get-element>

Вы можете разместить у нас заказ для любого Вашего проекта, будь то серийное производство или разработка единичного прибора.

В нашем ассортименте представлены ведущие мировые производители активных и пассивных электронных компонентов.

Нашей специализацией является поставка электронной компонентной базы двойного назначения, продукции таких производителей как XILINX, Intel (ex.ALTERA), Vicor, Microchip, Texas Instruments, Analog Devices, Mini-Circuits, Amphenol, Glenair.

Сотрудничество с глобальными дистрибьюторами электронных компонентов, предоставляет возможность заказывать и получать с международных складов практически любой перечень компонентов в оптимальные для Вас сроки.

На всех этапах разработки и производства наши партнеры могут получить квалифицированную поддержку опытных инженеров.

Система менеджмента качества компании отвечает требованиям в соответствии с ГОСТ Р ИСО 9001, ГОСТ РВ 0015-002 и ЭС РД 009

### Офис по работе с юридическими лицами:

105318, г.Москва, ул.Щербаковская д.3, офис 1107, 1118, ДЦ «Щербаковский»

Телефон: +7 495 668-12-70 (многоканальный)

Факс: +7 495 668-12-70 (доб.304)

E-mail: [info@moschip.ru](mailto:info@moschip.ru)

Skype отдела продаж:

moschip.ru

moschip.ru\_4

moschip.ru\_6

moschip.ru\_9