

## POWERSTAX N-0125 Series 10 High Ultra Compact AC-DC Power Supply 125W

## **Outline Product Specification**



- ☐ 125 W AC-DC
- □ UP TO 92% EFFICIENCY
- ☐ UNIVERSAL AC INPUT
- ☐ HIGH POWER DENSITY: 6.7 W / in³
- ☐ ACTIVE PFC (90 264 VAC)
- ☐ BUILT IN OR'ING DIODES FOR N+1
- **☐** 3 X 5" (76.2 x 127mm) SMALL FOOTPRINT
- □ <1U HIGH: 1.25" (31.75mm)
- ☑ NO LOAD OPERATION
- ☐ RoHS COMPLIANT

Powerstax continues to lead the power density race with its new small, high efficiency open frame N-0125 Series AC-DC power supplies.

The N-0125 Series provides greater than 90% efficiency and the very small footprint reduces wasted power. This offers the highest power density in the market in the 125W power range.

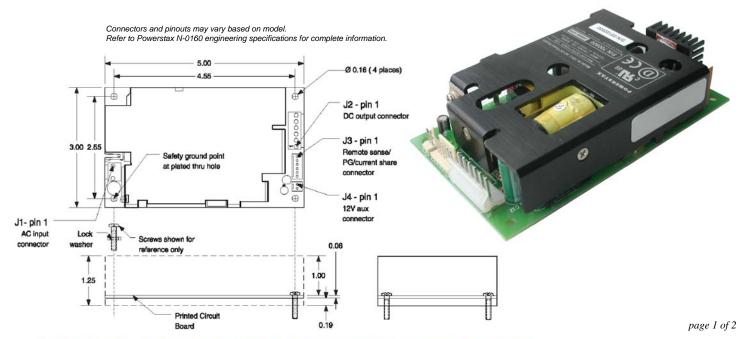
The unique design reduces energy consumption and generates less waste heat. It requires little forced air cooling, decreases AC loads and increases reliability and economy of operation.

The ultra low 1U high profile and compact package make it ideal for applications using industry standard 1U chassis and releases additional "real estate" for more functionality inside your product.

Contact Powerstax regarding custom or modified standard power supplies for unique applications.

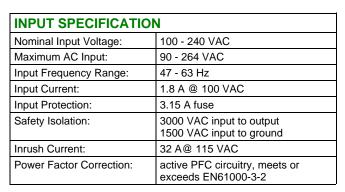


Safety Approvals: UL, cUL, DEMKO, CE Mark Emissions: FCC Class B





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OPERATING SPECIFICATIONS				
Operating Temperature:	-25 to +50°C			
Temperature Derating:	2.5% / degree C to 70°C			
Storage Temperature:	-40 to +85°C			
Forced Air Cooling:	5 CFM			
Convection Cooling:	See Engineering Specification			
Leakage Current;	<.75 mA			
MTBF:	>200,000 hours calculated			
SIGNALS				
Remote Sense:	on main output†			
Current Sharing:	active current sharing with or'ing di- ode†			
Power Good:	provided†			
PS_OK:	output†			
LED:	some models†			

POWER
310/
<b>V</b>

OUTPUT SPECIFICATION				
Power:	125 W			
Hold-up Time:	minimum 28 mS at all input voltages			
Efficiency:	up to 92%†			
Minimum Load:	no load†			
Over / Under Shoot:	maximum 10% at turn-on			
PROTECTION				
Overvoltage Protection:	on all main outputs			
Overpower Protection:	protected / auto-recovery			
Short Circuit Protection:	all outputs protected against short circuit			
Thermal Shutdown:	protected against overtemperature conditions			

<sup>†</sup> See Engineering Specification

## COMPLIANCE:

USA/Canada:

L60950 / C22.2, 60950 (Bi-National Standard) Safety of Information Technology Equipment Europe:

Europe:
73/23/EEC "Low Voltage Directive" (Safety)
IEC 60950 Third Edition (1999) Safety of Information Technology
Equipment. CB certificate and report available.
EN60950 (2000) Safety of Information Technology Equipment
89/336/EEC "Electromagnetic Compatibility Directive" (EMC)
EN61000-3-3 (1995) Limits of Voltage Fluctuations & Flicker

EN6100-3-2 (2000) Harmonic Current Emissions (Power Factor Correction)
EN61204-3 (2001) Stabilized Power Supplies, d.c. Outputs
EMC Standards Specification EN61204 (2001) is a product family

EMC standard which references the following specifications: EN61000-4-2 (1995) ESD

EN61000-4-2 (1996) +A1 (1998) Radiated Radio Frequency. Electromagnetic Field Immunity EN61000-4-4 (1995) Fast Transient / Burst Immunity

EN61000-4-5 (1995) Surge Immunity EN61000-4-6 (1996) Immunity to Conducted Disturbances EN61000-4-11 (1994) Voltage Dips, Short Interrupts & Voltage Variations

MODEL	OUTPUT	VOLTAGE	<b>REGULATION (%)</b>	MAXIMUM CURRENT (A)	RIPPLE & NOISE (P-P)
N-01254-PFC-033-0000	V1	+3.3	±2	10.0	50 mV
	V2	+5	±4	15.0	50 mV
	V3	+12	±5	5.0	120 mV
	V4	-12	±5	0.5	120 mV
N-01251-PFC-050-0000	V1*	□5	±3	25.0	50 mV
	V2	+12	±5	0.5	120 mV
N-01251-PFC-120-0000	V1*	12	±3	10.4	120 mV
	V2*	12	±5	0.5	120 mV
N-01251-PFC-150-0000	V1*	15	±3	8.3	150 mV
	V2*	12	±5	0.5	120 mV
N-01251-PFC-240-0000	V1*	24	±3	5.2	240 mV
	V2*	12	±5	0.5	120 mV
N-01251-PFC-480-0000	V1	48	±3	2.6	480 mV
	V2	12	±5	0.5	120 mV
N-01254-PFC-025-0000	V1	+2.5	±2	12.5	50 mV
	V2	+5	±4	15.0	50 mV
	V3	+12	±5	5.0	120 mV
	V4	-12	±5	0.5	120 mV
N-01253-PFC-050-0000	V1	+5	±4	16.5	50 mV
	V2	+12	±5	5.0	120 mV
	V3	-12	±5	0.5	120 mV
N-01251-PFC-033-0000	V1	+3.3	±3	32.0	50 mV
	V2	+12	±5	0.5	120 mV

s Specify "Rev. S" for RoHS compliant products \* Isolated outputs for + / – use  $\ddagger$  Isolated from main output

Exceeding absolute maximum ratings may cause permanent damage and may reduce reliability. Information and specifications contained in this data sheet are believed to be correct at the time of publication. However, Powerstax accept no responsibility for consequences arising from printing errors or inaccuracies. Specifications are subject to change without notice.



Ø Some Models