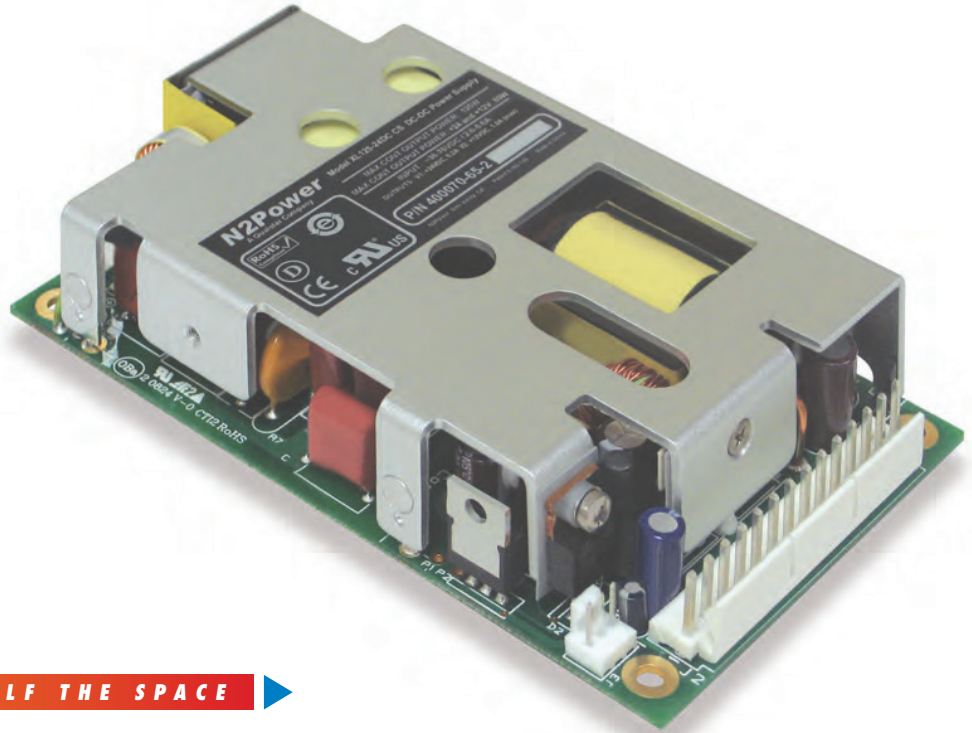


- **125 W DC-DC**
- **UP TO 90% EFFICIENCY**
- **HIGH POWER DENSITY:**
 $6.7 \text{ W} / \text{in}^3$
- **36 – 76 VDC**
- **ACTIVE CURRENT SHARING**
- **BUILT IN OR-ING DIODES FOR N+1 (OPTIONAL)**
- **3" X 5" SMALL FOOTPRINT**
- **<1U HIGH: 1.25"**
- **NO LOAD OPERATION**
- **RoHS COMPLIANT**
- **INPUT TO OUTPUT ISOLATION**



POWER SUPPLY DESIGN LEADER

N2Power™ continues to lead the power density race with its new small, high efficiency open frame XL125 DC-DC Series power supplies.

TWICE THE POWER IN HALF THE SPACE

Our technology yields a very small footprint, reduces wasted power, and offers the highest power density in the market in the 125 watt range. The unique design means reduced energy costs, a greater return on your investment, higher reliability and longer product life.

UNMATCHED POWER DENSITY

With an overall height of 1.25" and a 3" x 5" footprint, the XL125 Series boasts a power density of 6.7 watts per cubic inch. It is ideally suited for OEMs using industry standard 1U chassis. N2Power's small form factor power supplies allow you to work with additional "real estate" for more functionality inside your product. Decreased space, reduced thermal loads and lower costs will increase your competitive edge in the market.

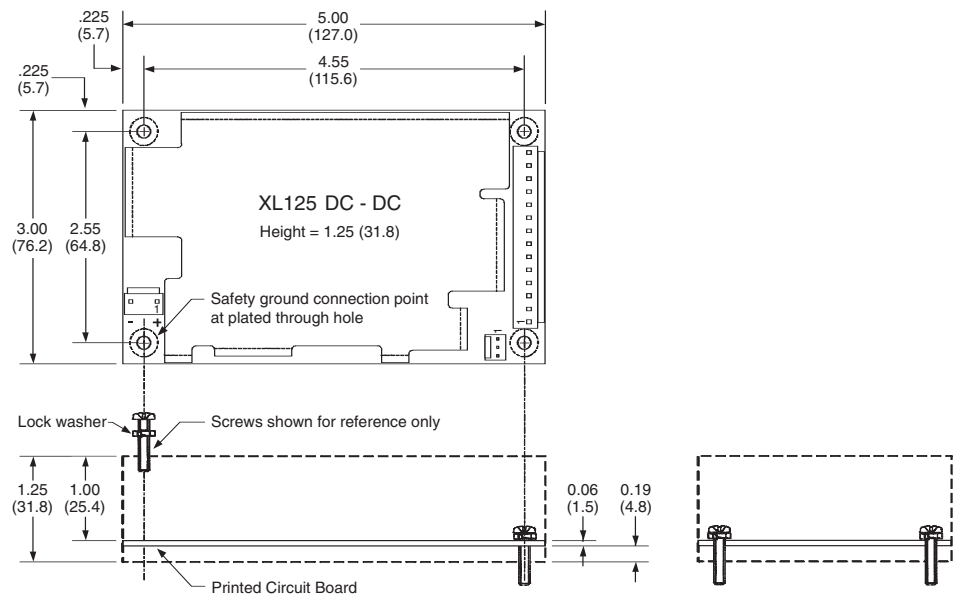
HIGH EFFICIENCY IN A SMALL PACKAGE

Reduced heat generation and greater reliability are key design requirements. The XL125 Series provides up to 90% efficiency in a 125 watt DC-DC power supply. Our unique design reduces energy consumption and generates less waste heat. It requires little forced air cooling, decreases DC loads and increases reliability and economy of operation.

Typical Mechanical Drawing:

Inches (millimeters), connectors and pinouts may vary with model.

Refer to XL125 DC-DC Product Specification for complete information.



REPEATABLE QUALITY

We use advanced PCB technology to deliver the highest density and best performance in the industry. Our packaging design incorporates SMT technology to automate processes, ensure reliability, and reduce cost. Each power supply undergoes a complete functional test and a multi-hour burn-in to insure that every unit meets our stringent quality requirements. Detailed statistical production records are maintained and rigid quality and AVL control insures the highest quality product available. Each power supply design is also rigorously tested by UL, with scheduled factory audits to ensure ongoing compliance.

Contact us regarding custom and modified standard supplies for unique applications.

| MODEL | PART NUMBER | OUTPUT | VOLTAGE | REGULATION (%) | MAXIMUM CURRENT (A) | RIPPLE & NOISE (P-P) |
|---------------|-------------|--------|---------|----------------|---------------------|----------------------|
| XL125-05DC | 400071-01-5 | V1 | 5 | ±3 | 25.0 | 50 mV |
| XL125-05DC CS | 400070-01-7 | V2 | 12 | ±5 | 1.0 | 120 mV |
| XL125-12DC | 400071-63-5 | V1 | 12 | ±3 | 10.4 | 120 mV |
| XL125-12DC CS | 400070-63-7 | V2 | 12 | ±5 | 1.0 | 120 mV |
| XL125-15DC | 400071-64-3 | V1 | 15 | ±3 | 8.3 | 150 mV |
| XL125-15DC CS | 400070-64-1 | V2 | 12 | ±5 | 1.0 | 120 mV |
| XL125-24DC | 400071-65-0 | V1 | 24 | ±3 | 5.2 | 240 mV |
| XL125-24DC CS | 400070-65-2 | V2 | 12 | ±5 | 1.0 | 120 mV |
| XL125-48DC | 400071-66-8 | V1 | 48 | ±3 | 2.6 | 480 mV |
| XL125-48DC CS | 400070-66-0 | V2 | 12 | ±5 | 1.0 | 120 mV |
| XL125-54DC | 400071-67-6 | V1 | 54 | ±3 | 2.3 | 540 mV |
| XL125-54DC CS | 400070-69-4 | V2 | 12 | ±5 | 1.0 | 120 mV |
| XL125-56DC | 400071-68-4 | V1 | 56 | ±3 | 2.2 | 560 mV |
| XL125-56DC CS | 400070-70-2 | V2 | 12 | ±5 | 1.0 | 120 mV |
| XL125-1DC | 400070-61-1 | 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 | 1.0 | 120 mV |
| XL125-8DC | 400070-68-6 | V1 | 5 | ±4 | 16.5 | 50 mV |
| | | V2 | 12 | ±5 | 5.0 | 120 mV |
| | | V3 | -12 | ±5 | 1.0 | 120 mV |

CS = Current Sharing

INPUT SPECIFICATIONS

| | |
|------------------------|--|
| Nominal Input Voltage: | 36 – 76 VDC |
| Input Current: | 4 A @ 36 VDC |
| Input Protection: | 8 A fuse |
| Safety Isolation: | 3000 V input to output 1500 V input to ground |

OUTPUT SPECIFICATIONS

| | |
|---------------------|------------------------|
| Total Power: | 125 W |
| Efficiency: | Up to 90%† |
| 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 |

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 Product Specification |
| MTBF: | >200,000 hours calculated |

SIGNALS

| | |
|------------------|--|
| Remote Sense: | On main output†Δ |
| Current Sharing: | Active current sharing with OR-ing diode†Δ |
| Power Good: | Provided† |
| PS_OK: | Output† |
| LED: | Some models† |

Compliance:¹

USA / Canada:

Safety: Underwriters Laboratories: UL 60950-1:2007 (2nd Edition) / C22.2 No. 60950-1-07 Safety of Information Technology Equipment (ITE)

EMC: FCC part 15, subpart B

¹See Product Specification for additional information

† See Product Specification

Δ Some Models

Europe:

2006/95/EC - "Low Voltage (Safety) Directive"
Demko: EN 60950-1:2006+A11:2009 (2nd Edition)

2004/108/EC "Electromagnetic Compatibility (EMC) Directive"
EN 61204-3 Class B

International:

IEC 60950-1:2005 (2nd Edition) Safety of Information Technology Equipment

IEC 61204-3 Class B

