



Product Specification

XL40 series

40W AC-DC

Power Supplies

Document No. 703594 Rev. 06-1-20

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1.

Introduction

1.1 Introduction

This specification defines the XL40 series of universal input, single output 40W switch mode power supplies. It includes information regarding the mechanical details, electrical and environmental ranges for storage and operation of the power supply. These power supplies achieve very high packaging densities. All of the XL40 family models are listed in Table 3-1.

All models of the XL40 series can be used as standalone power supplies and have different chassis options – XLO40 for **O**pen frame, XLU40 for **U** Chassis, XLE40 for **E**nclosure and XLD40 for **D**in rail.



XLO40



XLU40



XLE40



XLD40

Figure 1-1 XL40 Series

1.2 Agency Compliance

All of the XL40 models comply with the following international agency standards:

| Safety | Complies with Standard | Remarks |
|---|---|--|
| United States | UL 60950-1 2 nd Ed + A1:2009 + A2:2013 (Information Technology equipment) | I/P-O/P: 3000VAC; I/P-GND: 2500VAC |
| Canada | CSA 22.2 60950-1 | |
| International | IEC/EN 60950-1 Second Edition | |
| EU Council | 2014/35/EU | Low Voltage Directive |
| EMC | Complies with Standard | Remarks |
| International | EN61204-3 : 2000 (refer to the following) EN55011: 2009+A1 Class B Group 1 EN55024: 1998 + A1: 2001_ A2:2003 EN61000-3-2:Class D EN61000-3-3 EN61000-4-3 Ed 3.2 EN61000-4-4 Ed 3.0 EN61000-4-5 Ed 3.0 EN61000-4-6 Ed 4.0 EN61000-4-8 Ed 2.0 EN61000-4-11 Ed 2.0 | Low voltage power supplies – DC output Conducted Emission Standard Immunity Standard Harmonic Current Emissions (PFC) Voltage Fluctuations & Flicker Radio frequency immunity Electrical fast transient burst immunity Power line surge immunity RF Common mode immunity Power frequency magnetic field immunity Voltage dips and short interruptions immunity |
| Reduction of Hazardous Substances (RoHS) | Complies with Standard | Remarks |
| EU Council | 2002/95/EC 2011/65/EU 2015/863/EU | RoHS Directive RoHS 2 Directive Amending Annex II to Directive 2011/65/EU |

Marks of Conformance

United States & Canada



Underwriters Laboratories File E211115 (Industrial)

EU Council



RoHS



Table 1-1 Agency Compliance

2.

AC Input

2.1 Input Line Requirements

The following table defines the voltage and frequency requirements for the AC line inputs to the XL40 models which are capable of supplying full rated power in continuous operation throughout the specified ranges of voltages and frequencies. The power supply will automatically recover from AC power loss and is capable of starting under maximum load at the minimum AC input voltage described below.

| Parameter | Minimum | Nominal | Maximum |
|-------------------|---------|------------|----------------------------------|
| RMS Input Voltage | 85VAC | 100–240VAC | 264VAC |
| RMS Input Current | - | - | 1.05A / 100VAC 0.55A / 240VAC |
| Input Frequency | 47Hz | 50/60Hz | 63Hz |

Table 2-1 XL40 Series Input Parameters

2.2 Input Over Current Protection

The XL40 series incorporate a primary AC line fuse for input over current protection to prevent damage to the power supply and meet product safety requirements as outlined in Section 1.2.

2.3 Inrush Current Limiting

The cold-start (25°C) inrush current at 90° input phase angle (i.e. AC switch is closed at the peak of the AC sine wave input) is limited to less than 60 Amps peak for 230 VAC.

Repetitive ON-OFF cycling of the AC input voltage should not damage the power supply or cause the input fuse to open.

2.4 Low Input Voltage

The application of an input voltage below the minimums specified in Table 2-1 shall not cause damage to the power supply.

2.5 Leakage Current

The leakage current from AC line or AC Neutral inputs to Earth Ground is less than 75uA at 264VAC.

3.

DC Outputs

3.1 Output Voltage Regulation

The DC output voltages shall remain within the Minimum and Maximum limits of Table 3-1 when measured at the power supply connector under all specified line, load and environmental conditions contained herein.

| Model | Rated Voltage (VDC) | Load Regulation | Output voltage accuracy range | | |
|-----------|---------------------|-----------------|-------------------------------|---------------|---------------|
| | | | Minimum (VDC) | Nominal (VDC) | Maximum (VDC) |
| XL#40-05 | 5 | ±0.7% | 4.95 | 5 | 5.05 |
| XL#40-7P5 | 7.5 | ±0.5% | 7.42 | 7.5 | 7.58 |
| XL#40-09 | 9 | ±0.5% | 8.91 | 9 | 9.09 |
| XL#40-12 | 12 | ±0.5% | 11.88 | 12 | 12.12 |
| XL#40-15 | 15 | ±0.5% | 14.85 | 15 | 15.15 |
| XL#40-18 | 18 | ±0.5% | 17.82 | 18 | 18.18 |
| XL#40-24 | 24 | ±0.5% | 23.76 | 24 | 24.24 |
| XL#40-28 | 28 | ±0.5% | 27.72 | 28 | 28.28 |
| XL#40-36 | 36 | ±0.5% | 35.64 | 36 | 36.36 |
| XL#40-48 | 48 | ±0.5% | 47.52 | 48 | 48.48 |
| XL#40-53 | 53 | ±0.5% | 52.47 | 53 | 53.53 |

Table 3-1 Output Voltage Specifications

Note: “#” denotes the type of chassis, which can be
O =Open frame, U=U Chassis, E=Enclosure, D=Din Rail

3.2 No Load Operation

The power supply will operate under no load condition and will not result in damage to the supply. The power supply will remain stable and operate normally after application of loads.

3.3 Output Current/Power

The maximum available output power is always a function of the input voltage and ambient temperature. The maximum output currents of all models of XL40 are listed in Table 3-2. Refer to Section 3.3.1 and 3.4.1 for input voltage range and ambient temperature at which XL40 can deliver these maximum output powers.

| Model | Voltage VDC | Current (Max) A |
|-----------|-------------|-----------------|
| XL#40-05 | +5 | 8 |
| XL#40-7P5 | +7.5 | 5.34 |
| XL#40-09 | +9 | 4.45 |
| XL#40-12 | +12 | 3.34 |
| XL#40-15 | +15 | 2.67 |
| XL#40-18 | +18 | 2.23 |
| XL#40-24 | +24 | 1.67 |
| XL#40-28 | +28 | 1.43 |
| XL#40-36 | +36 | 1.12 |
| XL#40-48 | +48 | 0.84 |
| XL#40-53 | +53 | 0.77 |

Table 3-2 Max Load Currents

3.3.1 Input Voltage Derating

The XL40 series can be operated at the minimum input voltage of 85VAC with the total maximum output power of 40W.

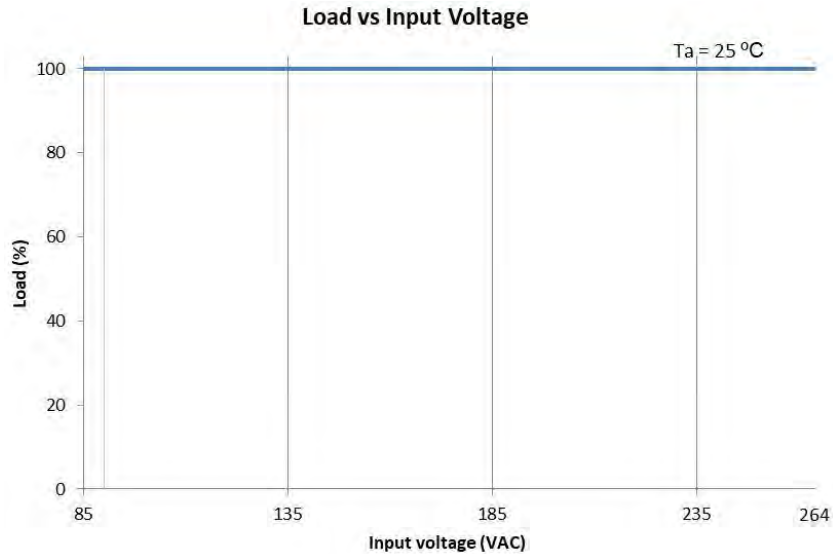


Figure 3-1 Load vs. Input Voltage

3.4 Cooling

XL40 can deliver maximum output power with unrestricted convection cooling. “Unrestricted” means there are no nearby obstructions that would impede the convection cooling process.

3.4.1 High Temperature Derating

The XL40 series can be operated at elevated temperatures by derating the total maximum output power (or current). Refer to below graphs to get the maximum output power at a specific ambient temperature.

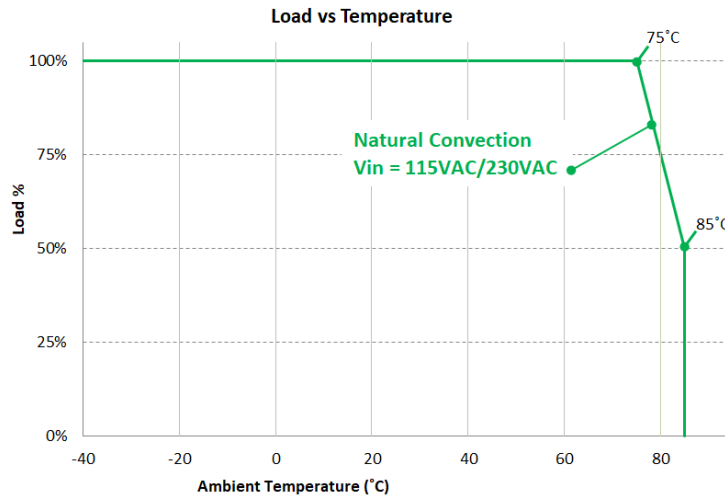


Figure 3-2 Temperature Derating Curve for XL#40-XX where XX refers to 5, 7P5, 9 and 28

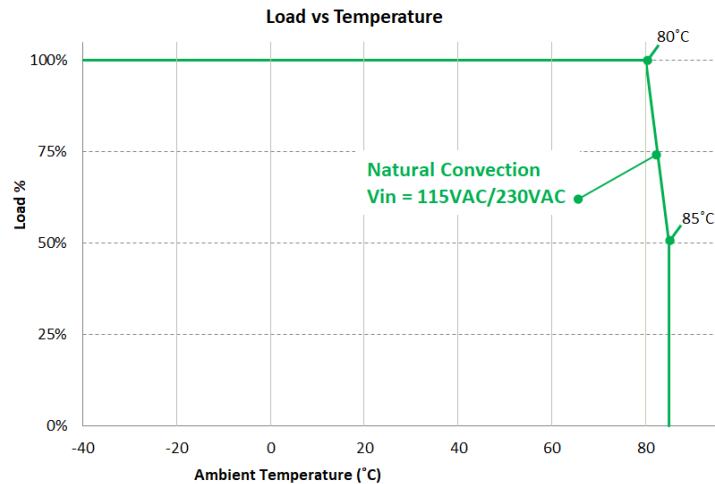


Figure 3-3 Temperature Derating Curve for XL#40-XX where XX refers to 12, 15, 24, 36, 48 and 53

3.5 Output Ripple/Noise

Output ripple voltage and noise are measured at 20MHz of bandwidth by using a 12” twisted pair-wire terminated with a ceramic capacitor (MLCC) in parallel. The capacitance values of this MLCC are 10 μ F for 5V, 7.5V, 9V, 12V, 15V output models, 1 μ F for 24V, 28V, 36V output models or 0.1 μ F for 48V and 53V output models. The ripple noise is measured from the output pin connectors.

3.5.1 Ripple/Noise Limits

The ripple voltage of the outputs is measured at the pins of the mating connector. Ripple and noise shall not exceed the limits specified in Table 3-3 under any condition of line voltage and frequency specified in Section 2.1 and DC loading specified in Section 3-2.

| Model | Output Voltage | Maximum Ripple+Noise (peak-to-peak) |
|--------------|-----------------------|--|
| XL#40-05 | 5 V | 75 mV |
| XL#40-7P5 | 7.5 V | 75 mV |
| XL#40-09 | 9 V | 75 mV |
| XL#40-12 | 12 V | 75 mV |
| XL#40-15 | 15 V | 75 mV |
| XL#40-18 | 18 V | 75 mV |
| XL#40-24 | 24 V | 75 mV |
| XL#40-28 | 28 V | 75 mV |
| XL#40-36 | 36 V | 75 mV |
| XL#40-48 | 48 V | 150 mV |
| XL#40-53 | 53 V | 150 mV |

Table 3-3 Ripple Voltage of XL40

3.5.2 Ripple/Noise Test Setup

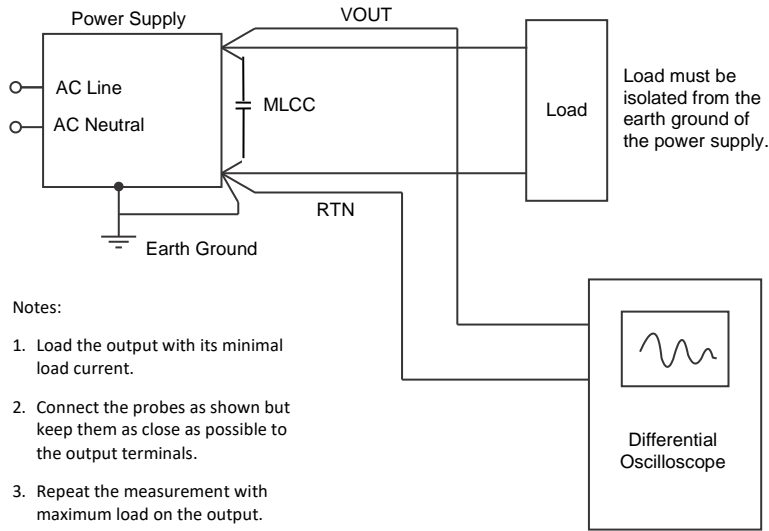


Figure 3-4 Ripple Noise Measurement Setup

3.6 Output Protection

There are output protection schemes designed to protect the load and the XL40 series from component failures and extraordinary circumstances.

3.6.1 Over Voltage Protection (OVP)

No single fault is able to cause a sustained over voltage condition on the output. When an over-voltage condition occurs at output, the power supply will shut down. Following an OVP event, the XL40 will not restart until AC power is turned off and back on.

| Model | Output (VDC) | OVP Voltage | | |
|-------|--------------|---------------|---------------|---------------|
| | | Minimum (VDC) | Nominal (VDC) | Maximum (VDC) |
| All | 5 V | 6.3 | 6.6 | 7.0 |
| | 7.5 V | 9.4 | 9.9 | 10.5 |
| | 9 V | 11.3 | 11.9 | 12.6 |
| | 12 V | 15.0 | 15.9 | 16.8 |
| | 15 V | 18.8 | 19.9 | 21.0 |
| | 18 V | 22.5 | 23.8 | 25.2 |
| | 24 V | 30.0 | 31.8 | 33.6 |
| | 28 V | 35.0 | 37.1 | 39.2 |
| | 36 V | 45.0 | 47.7 | 50.4 |
| | 48 V | 60.0 | 63.6 | 67.2 |
| | 53 V | 66.3 | 70.2 | 74.2 |

Table 3-4 Over Voltage Protection Limits

3.6.2 Over Current Protection (OCP)

An excessive load will cause the output to shut down. The maximum output power before the power supply shuts down is about 145% (typical) of the rated output power. The power supply will periodically attempt to restart until the over-current condition is removed.

3.6.3 Short Circuit Protection

A short circuit is defined as an impedance of less than 0.1 ohms placed between RTN and output. A short circuit will cause no damage to the power supply, but will cause it to shut down. The power supply will periodically attempt a restart until the short circuit condition is removed. After successfully restarting, the power supply will operate normally.

3.7 Output Rise Time

Output voltage shall rise from 10% to 90% of nominal output voltage within 20ms. The output voltage waveform must be a monotonic ramp from 10% to 90% of final set point within the regulation band under any loading conditions specified in the respective load current tables in Table 3-2.

For the purposes of this specification, a monotonic ramp is defined as always having a positive slope from zero to $10 \times V_{OUT}$ volts/millisecond. During any 5-millisecond portion of the ramp, its slope must be greater than 5% of its rated voltage per millisecond.

3.8 Overshoot at Turn On/Turn Off

The output voltage overshoot upon the application or removal of the input mains voltage is less than 5% for all XL40 models above the nominal voltage. No opposite polarity voltage will be present on any output during turn on or turn off.

3.9 Voltage Trim

A potentiometer (Figure 3-5) is provided to allow the user to adjust the output voltage up or down by up to 10%. The ability of the output to maintain its specified regulation accuracy under severe load or line conditions could be diminished by trimming the output to a higher than nominal voltage. The load current and power should not exceed the maximum limits described in Section 3.3.

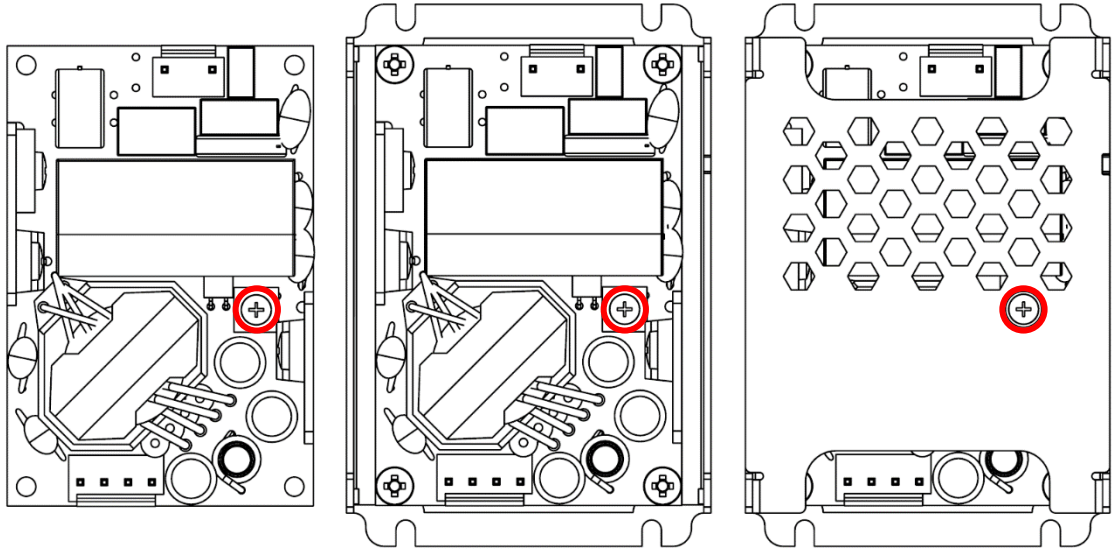


Figure 3-5 Potentiometer to adjust output voltage

4.

General Specifications

4.1 Environmental

The XL40 series meets or exceeds the following environmental specifications:

| Parameter | Conditions | Specification | Remarks |
|-------------------|---------------|--|---|
| Relative Humidity | Operating | -40°C to 85°C* | |
| | Non-Operating | -40°C to 85°C* | |
| | Operating | 5-95% Maximum | Non-Condensing |
| | Non-Operating | 95% Maximum | Non-Condensing |
| Altitude | Operating | 16404 feet MSL Max. | 5,000 meters |
| Vibration | No damage | 2.0 G RMS Maximum 2.0 G RMS Maximum | 10-500Hz, 10-min/1cycle, 60 min each along x, y, z axis. Mounting: Compliance to IEC60068-2-6 |

Table 4-1 Environmental Specifications

Note on (*): Refer to **Figure 3-2** for derating at different temperatures.

4.2 Mean Time between Failures

The calculated MTBF of all models is equal to or greater than 1.716×10^6 hours of continuous operation at maximum output loading and worst-case input line voltage with convection cooling at 25°C. N2Power does not warrant the MTBF to be representative of any particular unit. The MTBF of the power supply is calculated in accordance with (MIL-HDBK-217F). Actual failure rates vary from unit to unit.

4.3 Labeling/Marking

The power supply is marked and labeled with the N2Power logo and part number, model number, input and output specifications, production code, appropriate safety agency logos and CE mark. A typical label is pictured below.



Figure 4-1 Sample XL40 series Label

4.4 Net Weight

| Model | Pound | Ounces | Kilograms |
|-------|-------|--------|-----------|
| XLO40 | 0.25 | 4.02 | 0.11 |
| XLU40 | 0.34 | 5.43 | 0.15 |
| XLE40 | 0.37 | 5.96 | 0.17 |
| XLD40 | 0.42 | 6.70 | 0.19 |

Table 4-2 Net Weights

4.5 Mounting and Physical Dimensions

All XL40 models are provided with four mounting holes of the following size.

| Model | Millimeter (mm) | Inch (in) |
|-------|-----------------|-----------|
| XL#40 | 3.2 | 0.126 |

Table 4-3 Mounting Screw Sizes

See mechanical drawings for mounting hole locations and the dimensions of the power supplies. All the units are in “mm [in]” format with the tolerance of x.xx±0.5 [x.xxx±0.02].

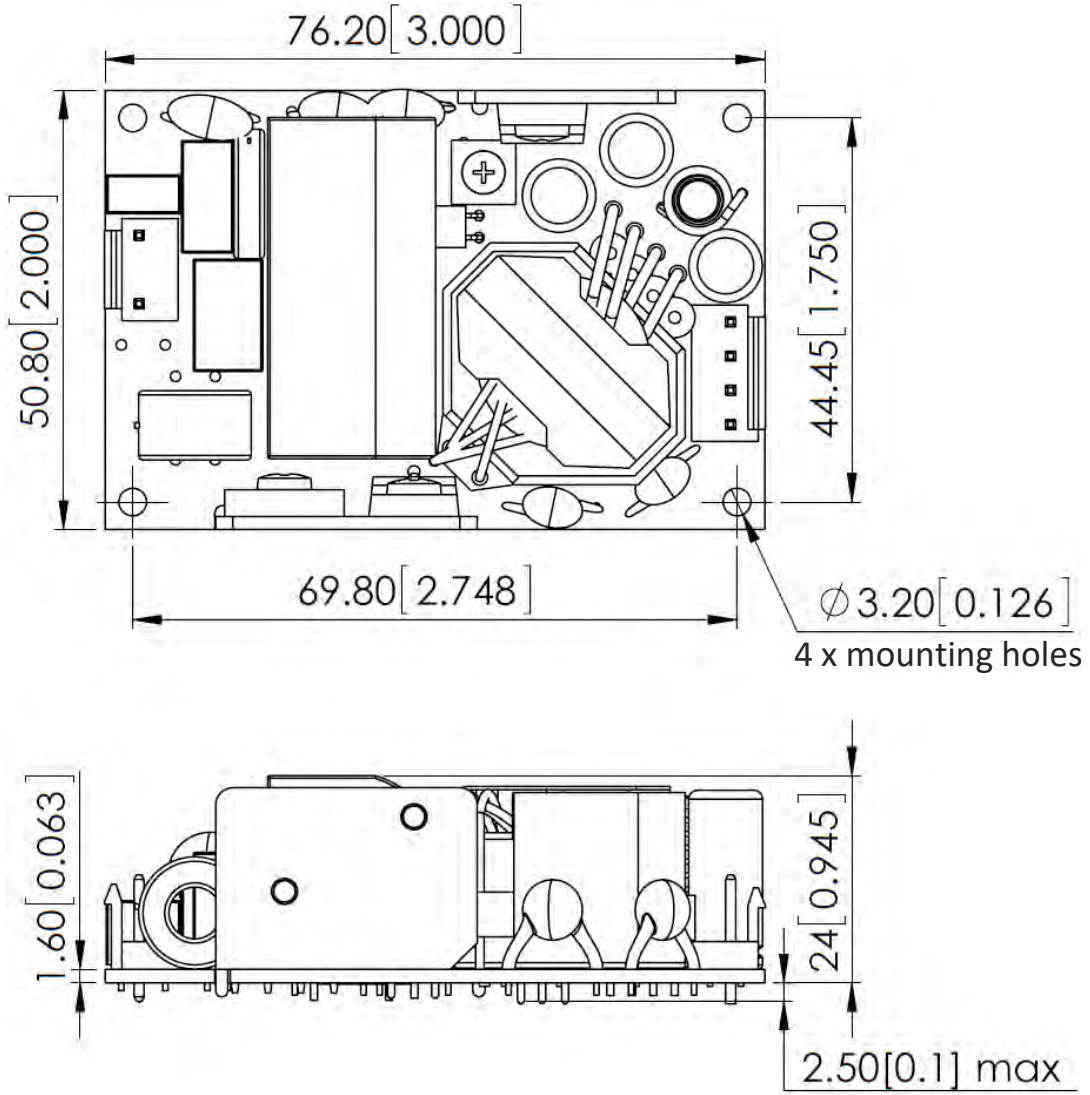


Figure 4-2 XLO40 models: Mounting Hole Locations and Dimensions

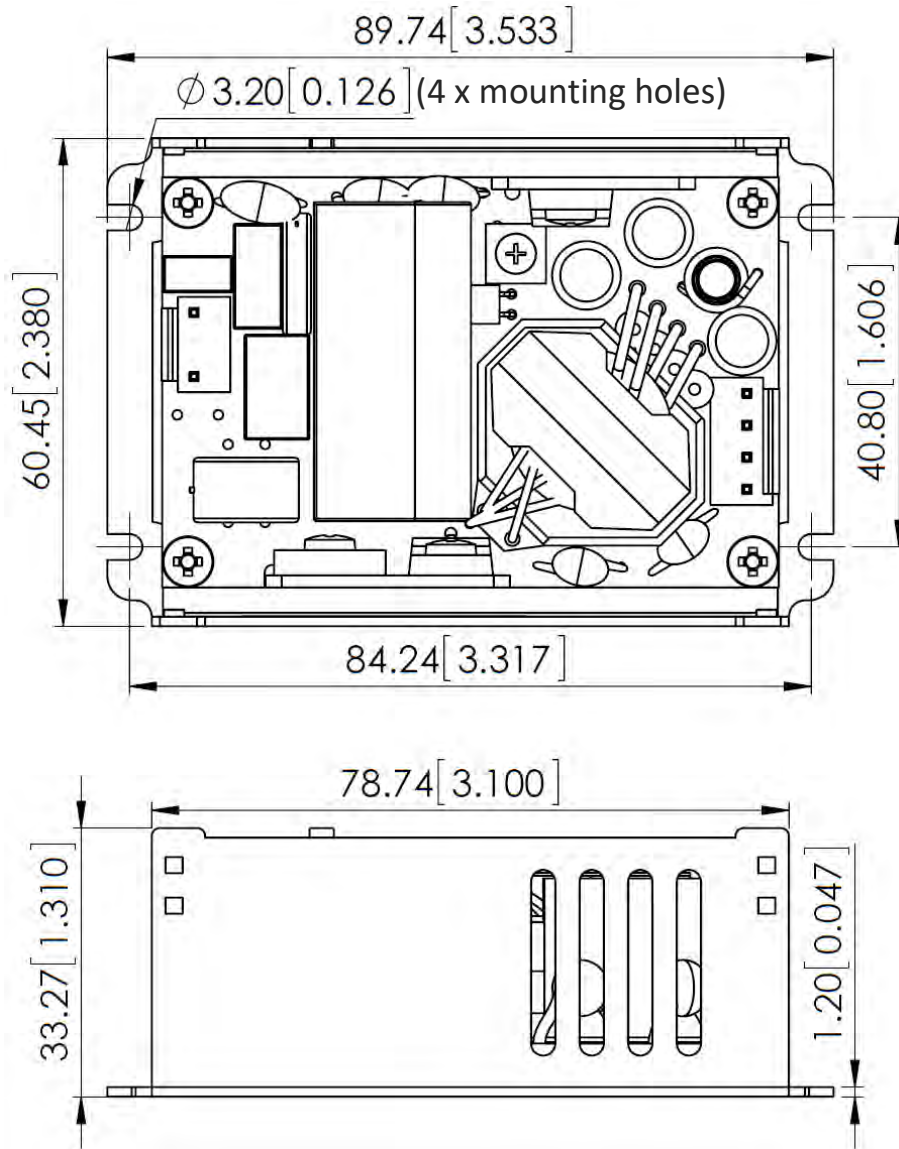


Figure 4-3 XLU40 models: Mounting Hole Locations and Dimensions

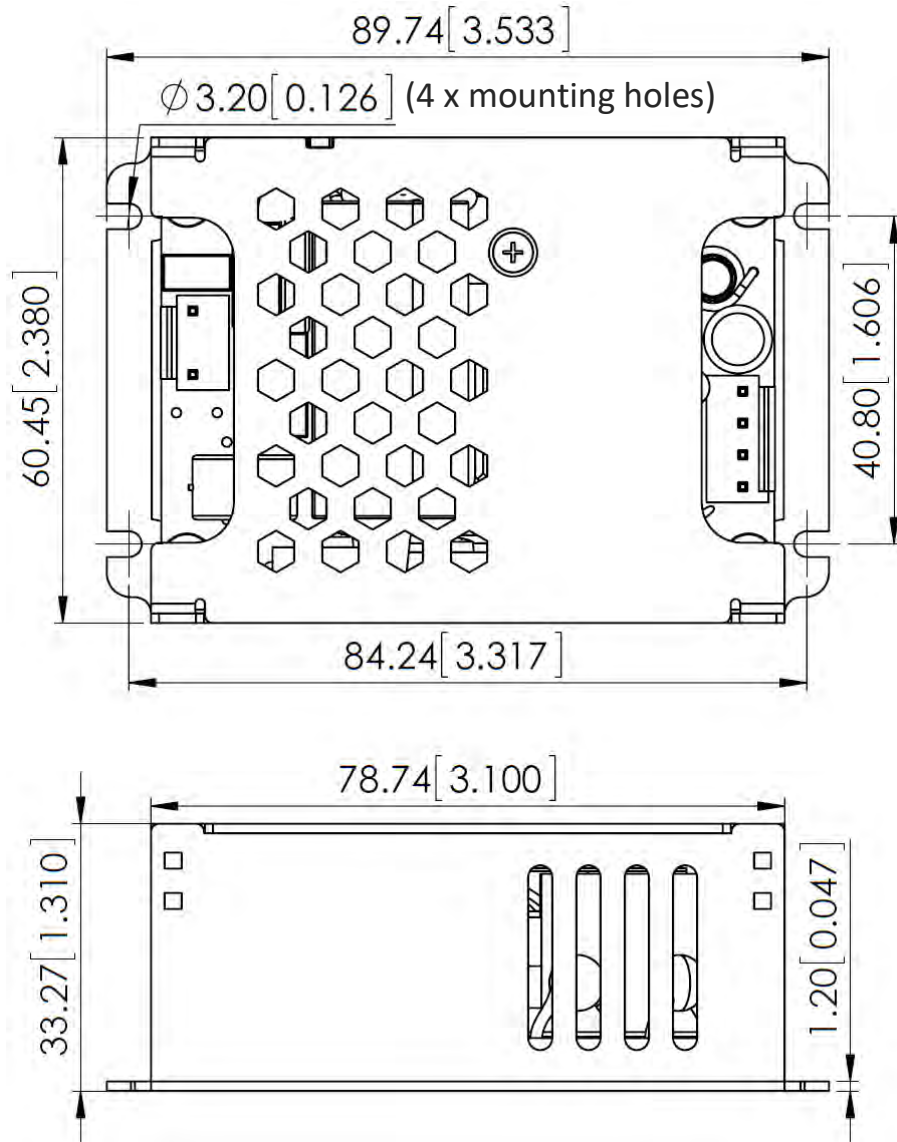


Figure 4-4 XLE40 models: Mounting Hole Locations and Dimensions

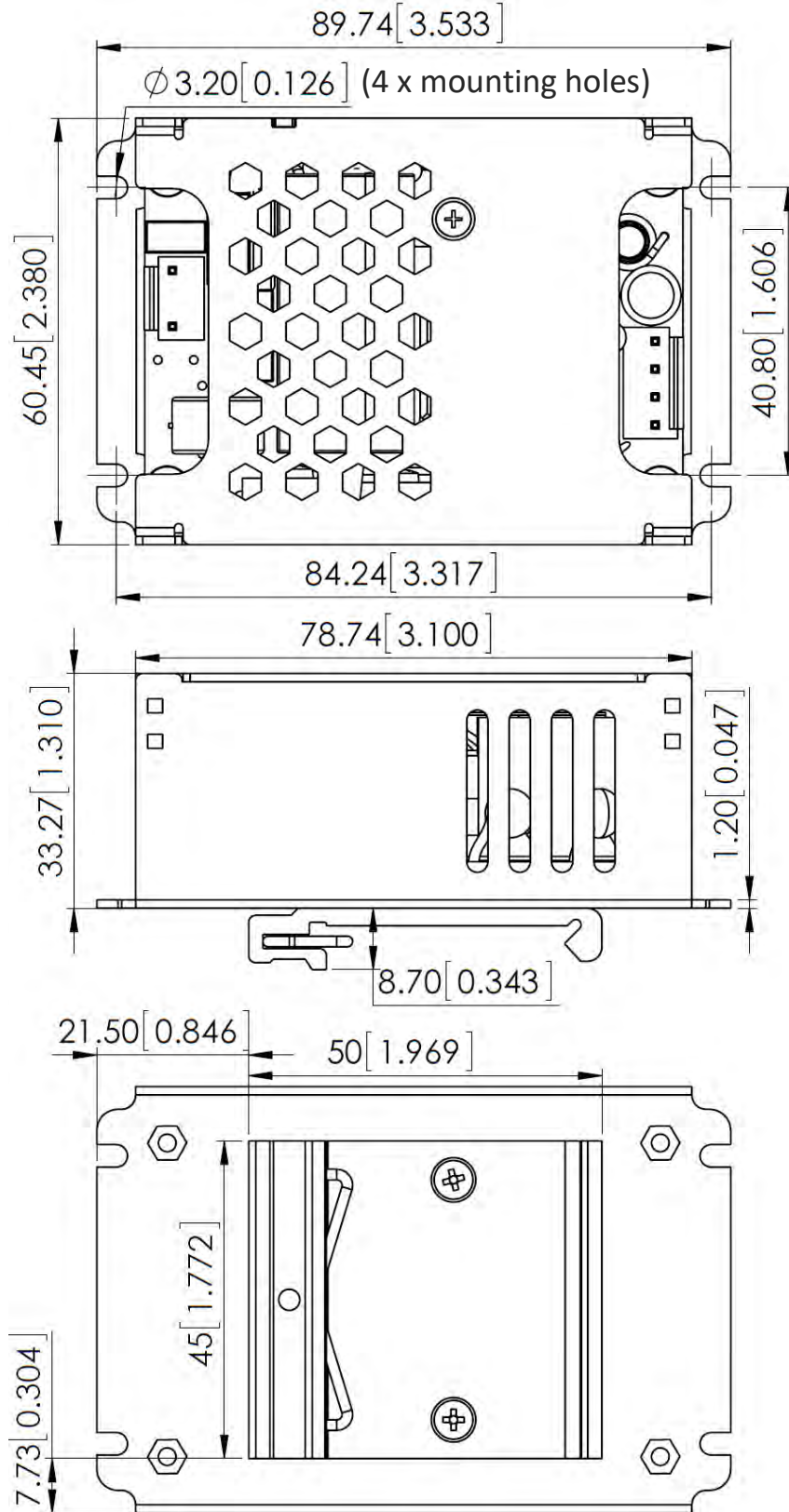


Figure 4-5 XLD40 models: Mounting Hole Locations and Dimensions

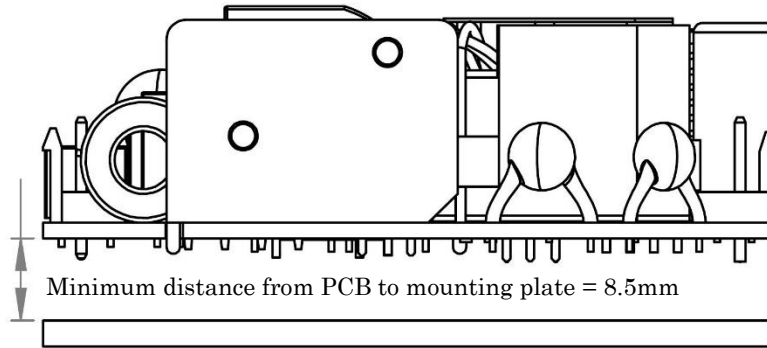


Figure 4-6 XL40 minimum distance requirement from mounting plate

When XL40 models are mounted on the FG mounting plate, the distance from the mounting plate to the PCB must be at least 8.5mm.

A standoff less than 8.5mm high is acceptable when a thin insulator, 0.4mm thick (polyester, fish paper or equivalent UL rated 94V-2 minimum) is placed between the power supply and the mounting chassis (refer to applicable UL standard for clearance requirements).

4.6 Mating Connectors

The user must furnish all mating connectors. The mating connectors must meet the requirements of all applicable safety agencies (UL and/or TUV).




| Model | | Designator | Mating Housing | Terminal | |
|---------------------|---|------------------------|------------------------------------|--|------------------------------------|
| Mains input Options |  | AC INPUT | VHR-3N | SVH-21T-P1.1 | |
| | | +/-VOUT (DC Output) | VHR-4N | SVH-21T-P1.1 | |
| |  | AC INPUT | 09-50-8031 | SD-2478 | |
| | | +/-VOUT (DC Output) | 09-50-8061 | SD-2478 | |
| |  | Terminal Block | AC INPUT +/-VOUT (DC Output) | Screw locked torque- max 2Kgf.cm/0.2N.m | Wire dimension range 26 ~ 16AWG |

Table 4-4 Mating connectors

4.7 Output Grounding

For CLASS I protection type power supplies (without suffix “C” at model names), the RTN signal may be connected to the power supply chassis ground (safety earth) screw terminals on the power supplies as shown in Figure 4-7.

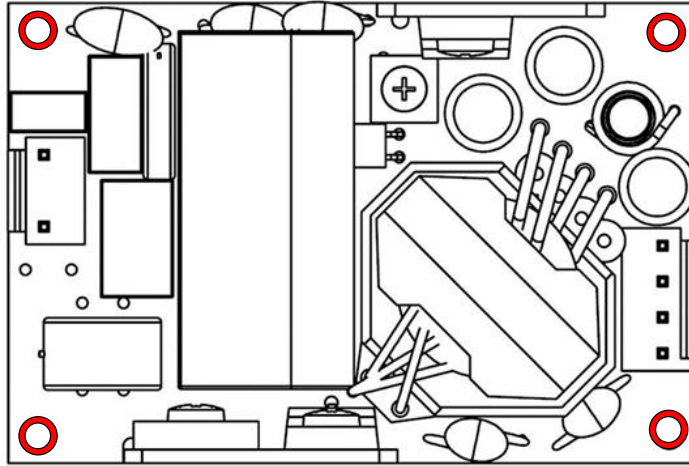


Figure 4-7 Safety ground connection points

4.8 Pin Definitions

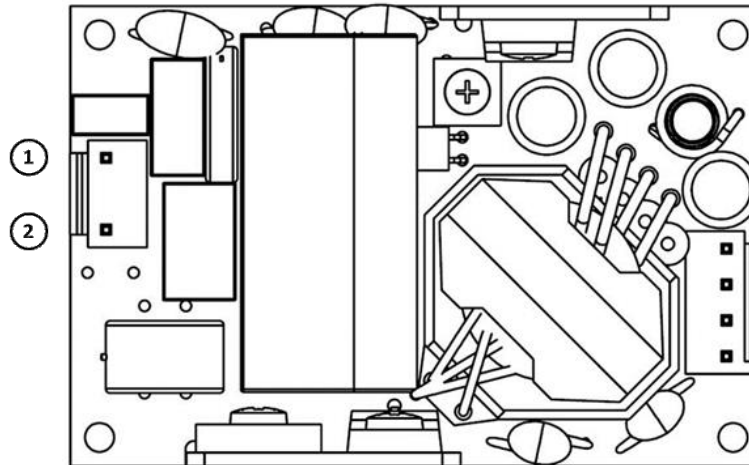


Figure 4-8 Pin Definitions

| Model | Connector | Pin No. | Assignment |
|-------|-------------------|---------|-------------------|
| All | AC Input Terminal | 1 | AC NEUTRAL |
| | | 2 | AC LINE |
| | Output Connector | 3, 4 | VOUT |
| | | 5, 6 | RTN (VOUT Return) |

Table 4-5 Pin Definitions

5.

Efficiency

The efficiencies for the XL40 power supply models are listed below. They were measured at full load, 25 °C at 230AC.

| Model | Output Voltage | Total Load | Efficiency |
|--------------|-----------------------|-------------------|-------------------|
| XL#40-05 | 5 V | 40 W | 90 % |
| XL#40-7P5 | 7.5 V | 40 W | 90 % |
| XL#40-09 | 9 V | 40 W | 91 % |
| XL#40-12 | 12 V | 40 W | 92.5 % |
| XL#40-15 | 15 V | 40 W | 93.5 % |
| XL#40-18 | 18 V | 40 W | 93% |
| XL#40-24 | 24 V | 40 W | 93.5 % |
| XL#40-28 | 28 V | 40 W | 93.5 % |
| XL#40-36 | 36 V | 40 W | 92.5 % |
| XL#40-48 | 48 V | 40 W | 93 % |
| XL#40-53 | 53 V | 40 W | 92.5 % |

Table 5-1 Efficiency

6.

Timing and Control

6.1 Power Supply Timing

The maximum duration for the output to rise up to regulated output voltage (99% of nominal voltage) from the start of AC input voltage is 1 second.

6.2 Voltage Hold-Up Time

The power supply will maintain output regulation per Table 3-1 despite a loss of input power at 115VAC/60Hz and 230VAC/50Hz at maximum rated continuous output for a minimum of 25ms.

7.

Ordering Information

The following table provides the N2Power part numbers that should appear on your purchase order and will appear on any N2Power correspondence:

| Model | Output Voltage | N2Power Part Number |
|--------------|-----------------------|----------------------------|
| XLO40-05D | 5 V | 400570-01-1 |
| XLO40-7P5D | 7.5 V | 400570-05-2 |
| XLO40-09D | 9 V | 400570-06-0 |
| XLO40-12D | 12 V | 400570-02-9 |
| XLO40-15D | 15 V | 400570-07-8 |
| XLO40-18D | 18 V | 400570-03-7 |
| XLO40-24D | 24 V | 400570-04-5 |
| XLO40-28D | 28 V | 400570-09-4 |
| XLO40-36D | 36 V | 400570-11-0 |
| XLO40-48D | 48 V | 400570-12-8 |
| XLO40-53D | 53 V | 400570-13-6 |
| XLU40-05D | 5 V | 400569-01-1 |
| XLU40-7P5D | 7.5 V | 400569-05-2 |
| XLU40-09D | 9 V | 400569-06-0 |
| XLU40-12D | 12 V | 400569-02-9 |
| XLU40-15D | 15 V | 400569-07-8 |
| XLU40-18D | 18 V | 400569-03-7 |
| XLU40-24D | 24 V | 400569-04-5 |
| XLU40-28D | 28 V | 400569-09-4 |
| XLU40-36D | 36 V | 400569-11-0 |
| XLU40-48D | 48 V | 400569-12-8 |
| XLU40-53D | 53 V | 400569-13-6 |
| XLE40-05D | 5 V | 400568-01-1 |
| XLE40-7P5D | 7.5 V | 400568-05-2 |
| XLE40-09D | 9 V | 400568-06-0 |
| XLE40-12D | 12 V | 400568-02-9 |
| XLE40-15D | 15 V | 400568-07-8 |
| XLE40-18D | 18 V | 400568-03-7 |
| XLE40-24D | 24 V | 400568-04-5 |
| XLE40-28D | 28 V | 400568-09-4 |
| XLE40-36D | 36 V | 400568-11-0 |
| XLE40-48D | 48 V | 400568-12-8 |
| XLE40-53D | 53 V | 400568-13-6 |
| XLD40-05D | 5 V | 400567-01-1 |

| Model | Output Voltage | N2Power Part Number |
|--------------|-----------------------|----------------------------|
| XLD40-7P5D | 7.5 V | 400567-05-2 |
| XLD40-09D | 9 V | 400567-06-0 |
| XLD40-12D | 12 V | 400567-02-9 |
| XLD40-15D | 15 V | 400567-07-8 |
| XLD40-18D | 18 V | 400567-03-7 |
| XLD40-24D | 24 V | 400567-04-5 |
| XLD40-28D | 28 V | 400567-09-4 |
| XLD40-36D | 36 V | 400567-11-0 |
| XLD40-48D | 48 V | 400567-12-8 |
| XLD40-53D | 53 V | 400567-13-6 |
| XLO40-05C | 5 V | 400570-14-3 |
| XLO40-7P5C | 7.5 V | 400570-18-5 |
| XLO40-09C | 9 V | 400567-19-3 |
| XLO40-12C | 12 V | 400570-15-1 |
| XLO40-15C | 15 V | 400570-20-1 |
| XLO40-18C | 18 V | 400570-16-9 |
| XLO40-24C | 24 V | 400570-17-7 |
| XLO40-28C | 28 V | 400570-22-7 |
| XLO40-36C | 36 V | 400570-24-2 |
| XLO40-48C | 48 V | 400570-25-0 |
| XLO40-53C | 53 V | 400570-26-8 |
| XLU40-05C | 5 V | 400569-14-3 |
| XLU40U-7P5C | 7.5 V | 400569-18-5 |
| XLU40-09C | 9 V | 400569-19-3 |
| XLU40-12C | 12 V | 400569-15-1 |
| XLU40-15C | 15 V | 400569-20-1 |
| XLU40-18C | 18 V | 400569-16-9 |
| XLU40-24C | 24 V | 400569-17-7 |
| XLU40-28C | 28 V | 400569-22-7 |
| XLU40-36C | 36 V | 400569-24-2 |
| XL40U-48C | 48 V | 400569-25-0 |
| XLU40-53C | 53 V | 400569-26-8 |
| XLE40-05C | 5 V | 400568-14-3 |
| XLE40-7P5C | 7.5 V | 400568-18-5 |
| XLE40-09C | 9 V | 400568-19-3 |
| XLE40-12C | 12 V | 400568-15-1 |
| XLE40-15C | 15 V | 400568-20-1 |
| XLE40-18C | 18 V | 400568-16-9 |
| XLE40-24C | 24 V | 400568-17-7 |
| XLE40-28C | 28 V | 400568-22-7 |
| XLE40-36C | 36 V | 400568-24-2 |

| Model | Output Voltage | N2Power Part Number |
|--------------|-----------------------|----------------------------|
| XLE40-48C | 48 V | 400568-25-0 |
| XLE40-53C | 53 V | 400568-26-8 |
| XLD40-05C | 5 V | 400567-14-3 |
| XLD40-7P5C | 7.5 V | 400567-18-5 |
| XLD40-09C | 9 V | 400567-19-3 |
| XLD40-12C | 12 V | 400567-15-1 |
| XLD40-15C | 15 V | 400567-20-1 |
| XL40D-18C | 18 V | 400567-16-9 |
| XLD40-24C | 24 V | 400567-17-7 |
| XLD40-28C | 28 V | 400567-22-7 |
| XLD40-36C | 36 V | 400567-24-2 |
| XLD40-48C | 48 V | 400567-25-0 |
| XLD40-53C | 53 V | 400567-26-8 |

Table 7-1 XL40 Part Numbers

The model names in the above table are for CLASS II D protection type. XL40s for CLASS I C protection are also available.

All XL40 power supplies are RoHS compliant. For warranty information, refer to www.n2power.com. Direct all questions, orders or requests for quotation as follows:

| | | |
|--------------------------|--|-------------------|
| N2Power Order Desk: | orders@n2power.com | 805-583-7744 x112 |
| Fax (Attention N2Power): | | 805-978-5212 |
| Sales: | sales@n2power.com | 805-583-7744 x122 |
| Technical Support: | techsupport@n2power.com | 805-583-7744 x119 |
| Address: | 1267 Flynn Road Camarillo, CA 93012 | |