

SLD Series Power Supply Application Block Diagram

Note: Heyco Liquid Tight Conduit and conduit fittings (or equivalent) required for installations requiring NEMA 3 protection.. The DC Output side can also be used with liquid tight cord fittings and UL rated Cord.

115/230 VAC
Supply From
Facility

1/2" Conduit directly connected to power supply (EMT or Liquid Tight type)

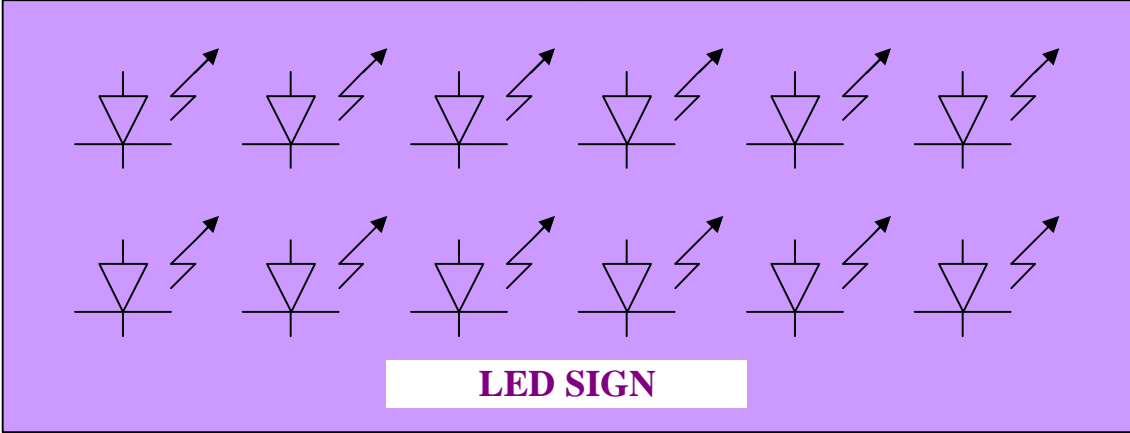
AC Input:
Conduit ready input connection for 1/2" conduit and fittings

SLD Series

Class 2 Power Supply w/
NEMA 3 protection

DC Output:
1/2" Conduit or Cord connection to sign

Automatic Constant-voltage or constant-current operation.



For further technical information or application assistance, call us

TOLL FREE 1-877-804-1142

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SLD Series, Class 2 power supplies:

Our Class 2 power supply, currently available in 45W and 60W versions, are designed to provide complete, outdoor/indoor, installation ready DC power for your LED lighting applications. This series enables you to develop UL48 compliant signage with reduced installation costs.

Typical Applications include LED Channel Signs and Backlighting, LED based Decorative/Architectural Lighting, LED Stage and Theater Lighting, and LED electronic displays. Refer to the Power Supply Application Block Diagram to view a typical installation using our Class 2, SLD series power supply.

Features and Benefits Include:

❑ Efficient switched-mode technology

One of the most attractive and important benefits of LED lighting technology is its energy efficiency. However, in order for an LED lighting system to provide the greatest efficiency and reliability, the power source, the lifeblood of the LED, must also be energy efficient. Our SLD power supply series is designed with the latest in switched-mode technology, which increases the LED lighting systems energy efficiency and reliability.

❑ Light and compact package

Because the SLD series uses the latest in switched-mode technology, its size is significantly smaller and lighter than other forms of power sources, such as linear power supplies and transformers.

❑ Terminal Screw or Conduit Entry/knockout Option

Depending on your wiring requirements, the SLD series can be purchased in two basic packages. Both versions have identical electrical specifications.

- 1) Conduit Entry version: This version includes conduit knockouts for ½ inch conduit fittings, wiring compartments, and is a flanged NEMA 3 compliant package for outdoor installations. This version can be installed on a building wall, roof, or in a cable tray, and provides ease of installation. The installation features eliminate the need for additional, costly enclosures, and most importantly, reduce installation time, which translates into immediate savings.**
- 2) Terminal block version: This version is designed for installation within a customer provided enclosure, or within a sign frame. The input and output terminal screws allow for quick wiring to AC power and to the sign/lighting system.**

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□ **DIN rail option for low cost & simple expansion**

The SLD series can be purchased with DIN rail mounting hardware, which allows the OEM or installer to easily expand their power requirements for larger LED signs/systems. Greater system power requirements can be met by simply attaching additional SLD power supplies onto a customer provided, standard DIN rail. This eliminates the need for custom power supplies configured for the many LED applications that may be encountered, reducing development time, cost and time to market.

□ **Constant-current limiting capability**

In many LED lighting applications, connecting multiple LED's in series/parallel from a single power supply source is acceptable. Luxeon[®] LED's, or equivalent, can operate in series/parallel with negligible light matching errors, without the need for multiple limiting resistors, such as in backlighting applications. By completely omitting limiting resistors, the SLD series will automatically switch to constant-current mode and accurately regulate the drive current, increasing energy efficiency, reducing circuit complexity, wiring, and ultimately, cost.

□ **User adjustable voltage and current option**

With user accessible voltage and current, the LED light output can be adjusted to a desired level, with a 35% adjustment span.

□ **NEMA 3 design for indoor or outdoor installations**

The conduit entry option is designed to NEMA type 3, which makes direct, outdoor installation possible. The NEMA type 3 design provides a degree of protection against falling dirt, rain, sleet, windblown dust, and damage from external ice formation, without the need of additional enclosures.