

SPN Series

KGCMP
PRODUCTS

Models

General Specification

Block Diagram

Operation Manual

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Operation Manual

1. Inrush Current

These power supplies are equipped with a inrush protection circuit, but when multiple power supply units are in use, care must be exercised in the selection of switches, etc.

Note that the standard specifications is the maximum value at cold start.

2. Over Current Protection

If output current exceeds the rated output of the power supply, the overcurrent protection will activate and output voltage will drop. The power supply will function normally once the overcurrent condition has been removed.

Using too large of capacitor on your load may prevent the power supply from providing the rated output voltage. Please consider load capacitance in your application.

Don't leave power supply in overcurrent condition or short mode more than 30 seconds,Power supply will be damaged.

3.Over Current Protection

When output voltage becomes greater than regulated output voltage, the overvoltage protection will activate.

Caution should be taken to assure that voltage is not adjusted greater than recommended $\pm 10\%$ tolerance level.

The 15W, 30W models utilize Zener limiter for overvoltage protection.

The 50W, 75W, 100W, 150W models uses inverter circuit for overvoltage protection. If overvoltage protection activates, turn off the power supply for approx 1 minute; check power supply, and recycle on. The power supply will resume normal operation.

4.Output Voltage設定

The output voltage can adjusted $\pm 10\%$ by adjusting trim pot on the PCB. Turning the trim pot clockwise, will increase the output voltage.Turning the trim pot counterclockwise will decrease the output voltage.The output voltage can be adjusted greater than $\pm 10\%$, but the limitations are set by

built-in overvoltage protection circuit.

5.Remote Sensing Terminal

Voltage drop can be expected when using long leads to a load. Use the Remote Sensing terminal to compensate for this voltage loss.

- ※Remove short-bar between(+, +S)&(-, -S).
- ※Use stranded sense leads.
- ※Connect sense leads prior to turning on the power supply.
- ※Voltage loss of main line should be within 0.3V.
- ※Always place electrolytic capacitor in front of load.
- ※Do not remove short-bar when Remote Sensing is not required.

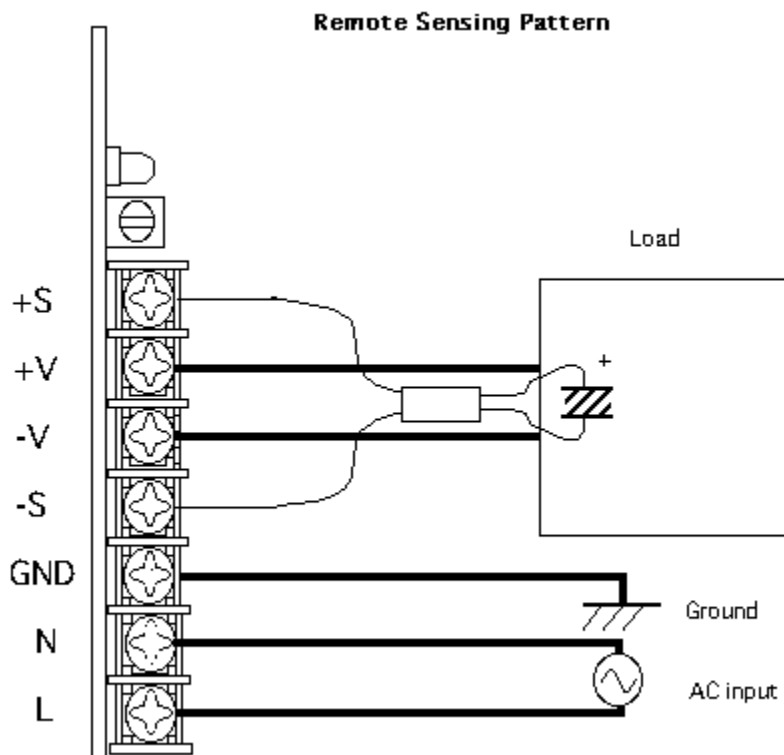
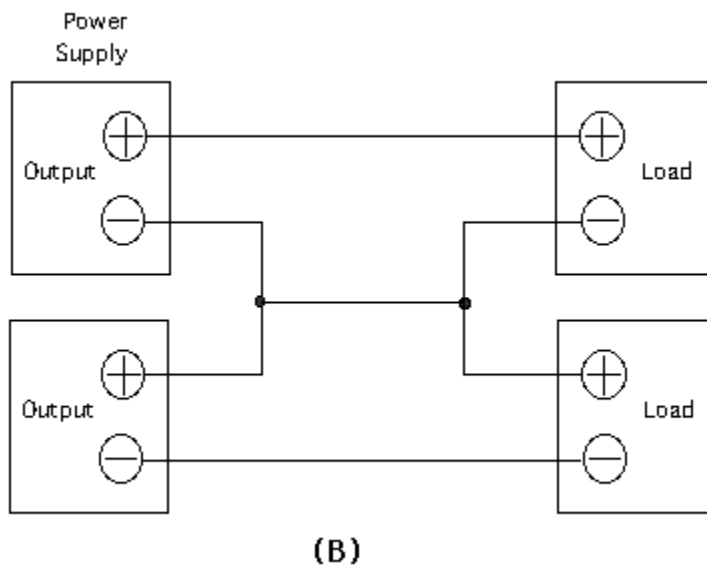
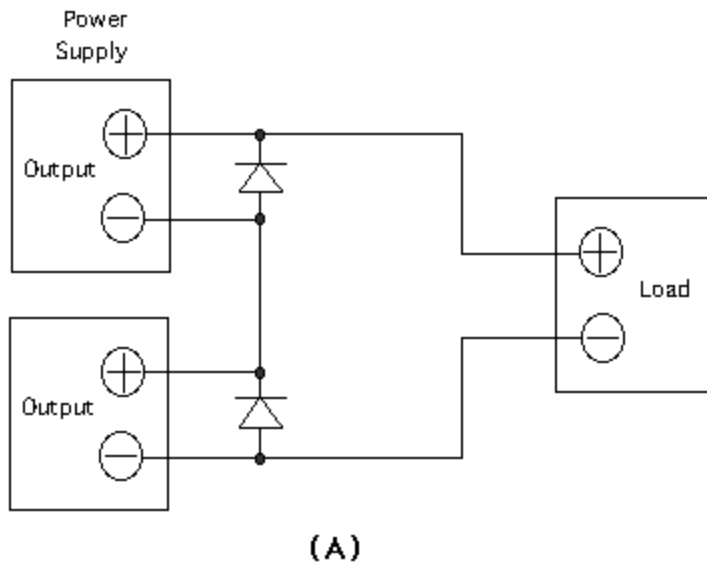


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6.Operation Temperature and Output Capability

The range of temperature over which a power supply can be operated safely is critical to the overall life of the power supply. Operate the power supply in safe ambient condition by considering the necessary



8. Input Fuse

Input fuse prevents secondary trouble. Don't try to change fuse. If fuse blows, contact your sales representative immediately.

9. Warranty

We offers a three year warranty and we will repair or replace the power supply at no charge to the customer, provided the power supply has not been determined damaged or defective as a direct result of misuse or mishandling by the user.

10. Others

These power supplies are our standard products and designed for general purpose applications. They are not designed for use in life support systems, equipment used in hazardous environments, or nuclear control systems.

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