

## SolarTech Power Solutions

# Home configuration with two outdoor power supplies



## Overview

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How do I connect multiple power supplies together?

When you need to connect multiple power supplies together to reach your desired power output, you'll have two approaches you can take: connecting power supplies in parallel or connecting power supplies in series.

Should I connect power supplies in series or parallel?

Connect power supplies in parallel if you want: To connect more devices in a parallel configuration. To install identical power supplies. Again, a customer service representative at Bravo Electro can not only help you choose between connecting power supply in series vs parallel but also offer recommendations on the specific PSUs you should use.

Can a power supply be used in a series output configuration?

However, there are certain limitations imposed on power supplies when used in a series output configuration. One such limitation is that the supplies' outputs must be designed to withstand the voltage offset caused by the series connection.

How do you connect two power supplies at 50% load?

At 50% load measure individual power supply output DC voltage. At 50% load, adjust the output voltage of both power supplies to same value or within +/-25mV tolerance. Connect the two power supplies in parallel either using figure 2 or through load share module (OR Diodes) as in figure 3. Read: What happens when phase and neutral are reversed?

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What is a power supply configuration?

configurations are normally designed to draw output current from only the primary power supplies and to draw current from the back-up power supplies

when a failure has occurred in one of the primary power supplies.

How to connect power supplies in redundant configuration?

Power supplies are connected using diode-based passive redundancy modules with some manufactures also offering active redundancy modules. Before connecting the power supplies in redundant configuration, the output voltage of two power supplies should be measured and set with a difference of atleast 2% of rated voltage.

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