

Power Supplies

US and International Power Supplies



Reliable Power Means Reliable Switching

Essential Power Requirements

Applying Good clean power to the board is essential for the operation of the board. Not only for the switching of the relays but the firmware that processes the commands. Without good steady clean power from a regulated power supply the board simply will not function correctly. More that one troubleshooting question has turned out to be from someone who says they are using a power supply that they had "just laying around" and it was not sufficient enough to provide the power needed to operate the board.

Power Requirements

All boards on the site require 12 VDC power. The PWR12 US power supply is a 120VAC to 12VDC 1.25A 60Hz regulated power supply and it plugs into the barrel connector on the board. The output connector is a 2.1mm I.D. x 5.5mm O.D. x 9.5mm Female R/A barrel connector.

International Power

For our international customers there is an international power supply available and it's a 90 - 264VAC to 12VDC 1.5A 50/60Hz power supply with five adapters. The output connector is a 2.1mm I.D. x 5.5mm O.D. x 9.5mm Female R/A barrel connector.

Hardwiring Power

The boards also have an installed screw connection that will allow you to hardwire the power directly to the board for applications where plugging into an outlet is not possible. This terminal should NEVER be used to power any device you are switching.



Sharing Power Supplies with Inductive Loads

The power supply used to supply power to the board should not be shared with inductive loads. You should never use a single power supply to power a the board and a 12V DC Motor. Doing so will introduce extremely high-voltage spikes that will damage the logic and power regulation portions of the board, and in many cases, the board will NOT BE REPAIRABLE.



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