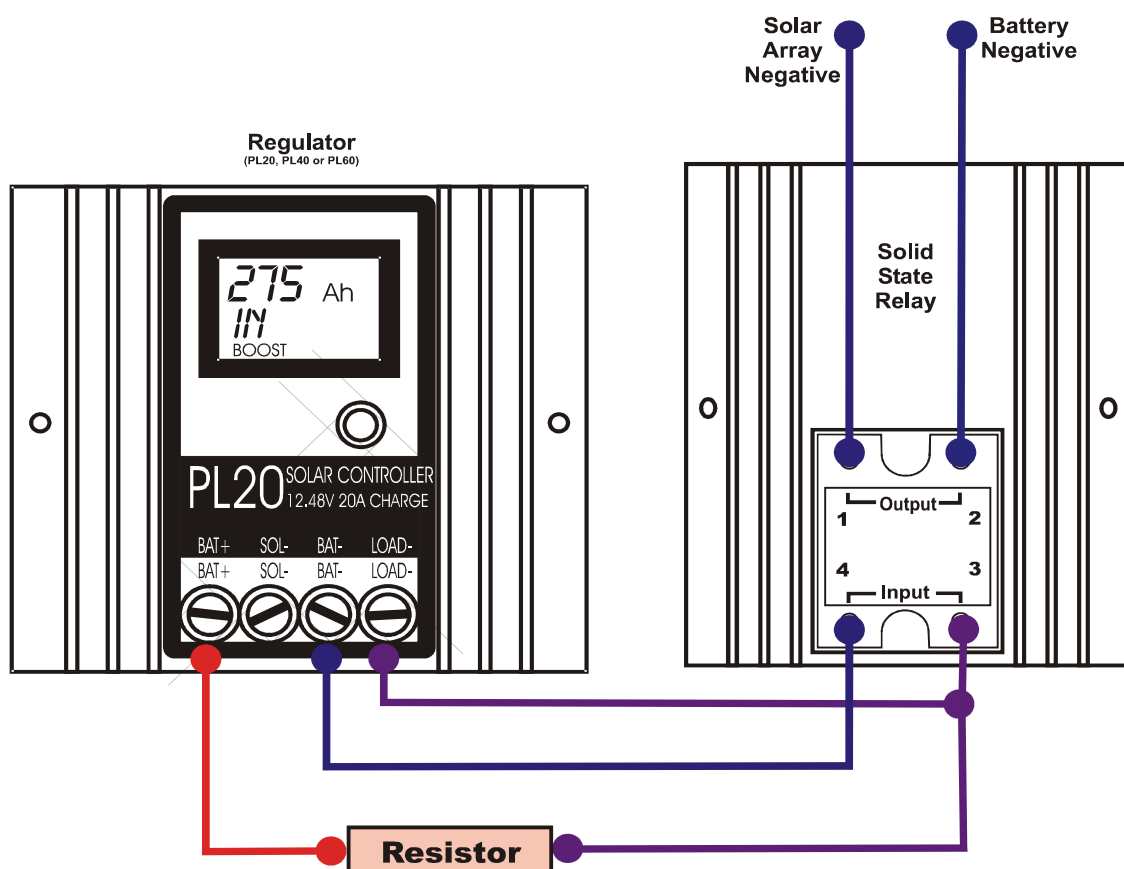


Plasmatronics PL Series

Adding a 40A Relay to a 12V System



Increasing the Charging Capability of Your Plasmatronics PL Regulator

This configuration is used to handle currents higher than your existing regulator's maximum rating without having to replace your regulator with a larger one. It is also used to increase the capability of large systems already equipped with the PL60. Extra strings of 12V panels (up to 40 amps per relay) are connected to the battery bank as follows:

The battery negative wire is connected to terminal '2+' on the relay, and terminal '1' is connected to the extra solar array negative (assuming the initial solar array is being regulated directly by the PL regulator). The normal operation of the regulator is thus duplicated at the relay. The regulator program settings and the value of the resistor are as follows:

**(Regulator is set to PROG: 4, LSET: 10, PWM: 3)
(Resistor value of 820Ω, 5W is supplied)**

Note: If you wish the regulator to measure the current going through the relay, then a Plasmatronics shunt adapter and external shunt will be required. The Load terminal can also be used to turn DC loads on (refer to PL manual for current limit) whilst turning the relay off (the relay switches in reverse).

Warning: For 12 volt systems only.



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