

HIGH POWER CONTROLLERS

PLH120 SERIES

120V 50 -250A Charge control

The PLH is a series switching Charge Controller system designed to regulate a 120V nominal battery bank. Its business end is a rugged modular 50A solid state switch unit. We can build in up to five of these modules allowing charge currents from 50A to 250A. The PLH is a second generation 120V charging solution built around the popular and versatile PL series controllers for the control and user interface, but employing a completely new design for the switching units. This new design incorporates a raft of innovations including:

- Much more heatsink capacity for improved high temperature performance
- Larger ISOTOP packaged MOSFETs with much higher voltage ratings
- Modular design within the switching module
- Very large spacing overall to deal with high voltages
- A separate transient absorption module and snubber network to deal with wiring inductance in very large arrays.

The result is an extremely rugged package designed to cope with the worst the Australian Outback has to offer.

The PLH is a positive ground controller which means the arrays are commoned on the positive side and switched on the negative side. High current, large wire size terminals are provided inside the well ventilated cabinet for all array and battery wires.

The PLH benefits from being a part of the PL series. It can use all the PL series accessories. Which means you can:

- Monitor 2 external currents using PLS2s
- Communicate with a computer or other system either directly or via a modem link using PLI and PLCOM
- Monitor the battery temperature and compensate the charging using PLT or PLTB
- Install a PLM remote monitor up to 100 metres away.
- Combine up to 3 PLH units together on one battery system using PLA for a truly massive 750A total charging capacity

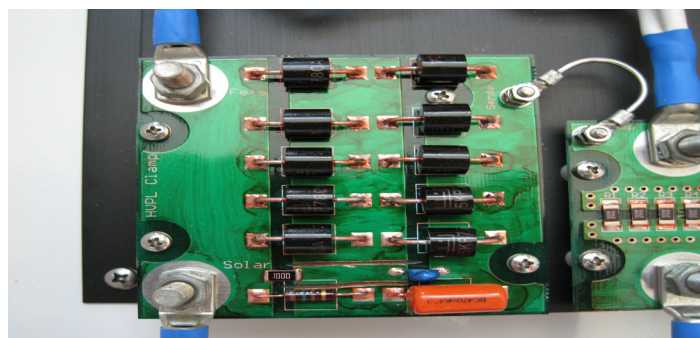
Like the other controllers in the PL series, the PLH has terminals to allow compensation for the voltage drop in the battery wires. Solar array short circuit protection is also provided.

The PLH is a 120V charge controller, however Plasmatronics can build lower voltages to order.



PLH Specifications

Nominal voltage	120V
Voltage display resolution	1V/step.
Current measuring range	0-255A
Current display resolution (internal)	1A/step
Current display resolution (external)	0.1A (<99.9A)
	1A(100+) /step
Supply current	30mA approx.
Array switch current max continuous	50A
	70A (<10sec)



Available from:
Plasmatronics Pty Ltd
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