

A.0 Appendices

A.1 Accessories

External Shunt Adaptor (PLS2)

Up to two external shunts can be added to the PL to allow it to measure larger currents than it is capable of measuring directly. The shunt adaptor measures the current in a shunt (eg SH200), converts it to digital information and sends that information back to the PL. The connection to the shunt is DC isolated from the PL so the shunt can be placed in any part of the circuit. Currents up to 250A can be measured. See the PLS2 instruction sheet for more information.

External Battery Temperature Sensor (PLT or PLTB)

The PLT is a plastic-cased unit for direct attachment to the battery wall. The PLTB has a bolt-on lug for attaching to either battery terminal. The unit connects to the T+ and T- inputs on the green terminal block under the PL cover. See Section 7.4.3 for further details.

Computer/Modem Serial Interface (PLI)

An RS232 level serial interface is available which allows the PL to communicate with a computer or be remote accessed via a modem. This is a quick way to load settings into the PL or extract performance data. All of the data is remotely accessible, and all settings can be adjusted. Software (PLCOM) is available for IBM compatibles to make this easy. Data can be cut and pasted into a spreadsheet or other applications.

PLCOM Software

PLCOM allows a computer to communicate with, and control the PL series charge controllers.

PLCOM requires an IBM compatible computer running Windows 95 or later. A suitable modem is required for remote communication over a telephone or radio network.

Remote Display (PLM)

The PL charge controller can be accessed from up to 100m away using a wired remote display. All of the functions work in the same way as on the actual

controller. Includes built-in audible alarm and display backlighting.

The PLM can be used to look at the PL screen in a more convenient or second location.

E.g. When you would like to check system information inside your house or motor home, and do not want to go outside to the shed or battery box to see information recorded on the PL.

Synchronisation / Alarm Unit (PLA)

The PLA allows synchronisation of up to three(3) PL charge controllers for charging a single battery from multiple arrays. It also provides 4 additional programmable alarm relay outputs and RS232 port for communication with PLCOM software. Can give totals of data collected from all connected PL charge controllers.

Cables (WYS, WZS, WXS, PLJ, Double Adapter)

New *shielded* data communication cables and adapters that allow 'daisy chain' connection of the PL charge controller to accessories (replaces the older WY and WZ cables).

WYS: 3m cable for connection between PL20/40 and the first accessory.

WZS: 3m cable for connection between PL60 and the first accessory.

WXS: 3m cable (custom lengths available) for connection between PL accessories or as an extension cable for WYS/WZS cables.

PLJ: In-line joiner for connecting WXS cable as an extension.

Double Adapter: 2 female to 1 male adapter which is plugged into an accessory and used with the WXS cable to connect another accessory.

WARNING: Cables and adapters from other suppliers could damage system components due to different internal wiring.

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