

PL series (20 – 60 A)

Solar Charge Controllers



- 12 V, 24 V, 32 V, 36 V and 48 V (menu selectable)
- Multifunctional LCD display
- Widely programmable charging characteristics
- External current sensing (shunt)
- Built-in 30-days data logger
- Control of hybrid systems
- Built-in programmable logic controller
- PLI interface (optional)

The PL series offers complete control over the charge cycle and various information about past and actual battery performance. The PL regulators have a built-in battery load disconnect function. In addition, the versatile event controller can switch power to lamps and pumps on or off, depending on the program. Regulation can be switched between series and shunt modes. Other features include backup diesel generator control and the charging of a second battery. This enables the regulation of wind turbines and

small water turbines, also in hybrid systems. The LCD display shows battery voltage, charging current, ampere hours (entering and leaving the battery), load current, and charge status. External shunts can be connected to the PL. Information is available about the past 30 days. With the optional PLI interface, the user can access the charge controller from a computer. Data can be read or settings adjusted. The PL can be operated from 12, 24, 32, 36, or 48 volt systems and is thus appropriate for all PV applications.

| Type | PL 20 | PL 40 | PL 60 |
|---------------------------|-------------------------------------|-------------------|-------------------|
| Nominal voltage | 12/24/32/36/48 V | | |
| Max. solar charge current | 20 A | 40 A | 60 A |
| Max. load current | 20 A | 7 A | 30 A |
| Max. voltage drop | 0.4 V | | 0.42 V |
| Own consumption | 9 mA | 13 mA | 20 mA |
| Temperature sensor range | -15 to +50 °C | | |
| Regulation set point | 4 present programs, one user adjust | | |
| Ambient temperature | -20 to +50 °C | | |
| Dimensions (W x H x D) | 100 x 109 x 41 mm | 130 x 124 x 50 mm | 225 x 175 x 62 mm |
| Weight | 320 g | 515 g | 1,100 g |