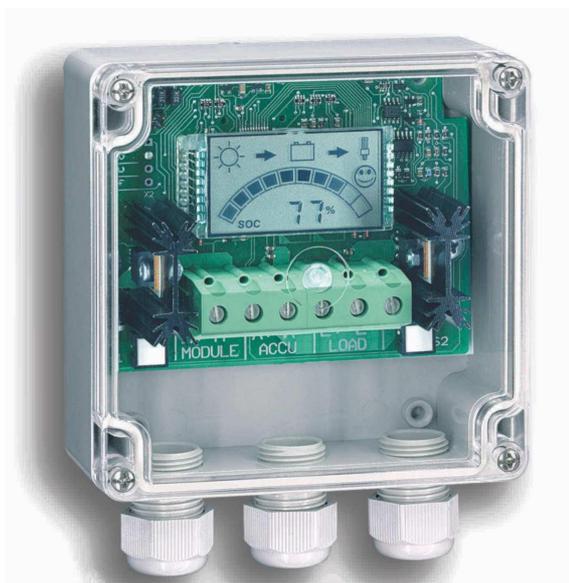


# PR.. solar charge controllers

PR1010, PR1515, PR2020, PR3030 and PR2020IP

- ✓ Graphical display
- ✓ Internal Temperature Compensation
- ✓ Improved Charging Algorithm
- ✓ Determination of State of Charge
- ✓ Dynamic Overcharge Protection



PR2020 IP

PR1010  
PR1515  
PR2020  
PR3030



- ✓ Operation Status diagnosis
- ✓ manual load switch
- ✓ complete electronic protection
- ✓ selftest

# PR1010, PR1515, PR2020, PR3030, PR2020IP

Our newest, and fifth generation of solar charge regulators sets new standards in solar technology. For the first time a big graphical display shows all system information in a self explaining way. The integrated central processing unit, called Atonic<sup>®</sup>, provides a charge controller with new functions. Atonic is more than a protective device for your battery, and contains the most recent and innovative technology. It contains a self-learning algorithm which gives detailed information on the battery's state of charge (SOC). This optimized Steca State of charge algorithm is more precise than ever known and displayed similar to a fuel gauge. It adjusts itself to the battery's age and capacity. The SOC provides a basis for all control and regulatory functions. This new type of hybrid regulator is much more efficient than conventional series and shunt regulators. Furthermore the regulator is equipped with an electronic fuse which protects the regulator much better than a mechanical fuse and offers more comfort to the user as it reconnects automatically. In addition a manual load switch is available on the regulator.

## Overcharge Protection:

- Temperature-adjusted final voltage
- Optimised float, boost, equalisation charging
- The varied charging rate provide complete use of the battery capacity, and maximum lifetime
- The controller adapts itself to 12V or 24V systems automatically on installation
- shunt regulation

## Options:

- External temperature sensor
- Digital multifunction alarm/output
- Prepayment unit for prepay systems

## Overdischarge Protection:

- The SOC provides load disconnect
- Warning of imminent load disconnect

## Display:

- Grafical self explaining LC-Display
- SOC and Voltage of the Battery as well as all currents. All values are displayed as numbers and can be selected by the button.
- Operation status and detailed error report

## Safety Features:

- Electronic fuse, protection against overcurrent, overvoltage and overtemperaturer
- Protection against wrong polarity and short circuit
- Extremely low electromagnetic emission

Tech. data at 50°C	PR1010	PR1515	PR2020	PR3030	PR2020IP
Max. Charge Current	10 A	15 A	20 A	30A	20 A
Max. Load Current	10 A	15 A	20 A	30A	20 A
Max. admissable current	110 %				
Load overcurrent disconnect after 1sec	125 %				
Max. self consumption	12 mA				
Admissable ambient Temperature	- 10 °.. + 50 ° C				
Connection Terminal (fine/single wire)	16/25 mm <sup>2</sup>				10mm <sup>2</sup>
Weight	350 g				400g
Dimensions	187x96x44 mm				150x120x55mm
Protection	IP 22	IP22	IP22	IP22	IP65
System Voltage	12/24 V				
PR3030PR3030PR3030					

