

# IP 65 Solar Charge Controller

Internal temperature compensation  
Dynamic overcharge protection  
Intelligent charging algorithm  
Proof against operating errors



Automatic voltage adaption  
Operation status diagnosis  
Overdischarge protection  
State of charge display  
IP 65

**Atonic**  
*inside*

CE 

**teca**



Our newest, and fourth generation of solar charge controller sets new standards in solar technology. The Solarix® ST line is designed especially for industrial and outdoor use. For the first time, a solar charge controller is offered on the market which is equipped with an integrated circuit (ASIC), a special design for solar electricity system. This integrated circuit, called AtonIC®, provides a charge controller with new functions. Atonic is not only a protective device for your battery, but also 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). It adjusts itself according to the battery's age and capacity. The SOC provides a base for all control and regulatory functions. This new type of hybrid regulator is much more efficient than conventional series and shunt regulators. The newly introduced displays give information about the SOC and faults.

**Overcharge Protection:**

- Temperature-adjusted SOC and final voltage
- Optimum fast, medium and trickle charging
- The varied charging rates provide complete use of battery capacity, and long life
- The controller adapts itself to 12V or 24V systems automatically on installation

**Over-discharge Protection:**

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

**Options:**

- 6-character LCD display
- Long term data collection with a PC interface
- External temperature sensor

**Display:**

- Two LEDs, with fixed or flashing colours, provide:
  - SOC in 10 different colours and warning of load disconnection
  - Operation status and faults displayed

**Safety Features:**

- Protection from overcurrent, over-voltage and over-temperature
- Protection from wrong polarity and short circuit
- Extreme low electromagnetic emission
- IP 65 enclosed

**Technical Data:**

	Solarix ST 10 B 10	Solarix ST 20 B 20
With LCD display	Solarix ST 10 L 10	Solarix ST 20 L 20
Max. Charge Current at 50° C	10 A	20 A
Max. Load Current at 50° C	10 A	20 A
Connection terminal (fine/ single wire)	4/6 mm <sup>2</sup>	10/16 mm <sup>2</sup>
Dimensions	162x57x120	180x57x120
Weight	B 395 g / L 405 g	B 620 g / L 630 g
Protection	IP 65	IP 65
System voltage	12/24 V	12/24 V
Admissable ambient temperature	-25°... +50° C	-25°... +50° C

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