

Code: SCC-20A-MPPT

## SOLAR CHARGE CONTROLLER **SCC-20A-MPPT** AZO Digital

Solar panels are a clean and ecological source of electricity. Obtaining this energy, however, poses a number of challenges for device designers. The amount of energy produced by the panel is strongly dependent on the angle of incidence and the intensity of the light falling on the surface of the cells. This, in turn, leads to unstable power supply parameters at the output, as even shading a small part of the panel may drastically reduce the efficiency.

The optimal solution to the above-mentioned problems is the use of a set consisting of a solar panel, a battery and a charge controller. Such a set allows to ensure constant parameters of power supply to receivers, and also to store energy produced excessively for later use.

The SCC-20A-MPPT solar charge controller allows you to connect panels connected to each other both in series and in parallel - remembering not to exceed the permissible values of current and voltage at the input of the device.

The MPPT (Maximum Power Point Tracking) Controllers ensure the optimal level of use of electricity generated by the solar panel. Thanks to the technology that allows to track the maximum power point of the panel, MPPT devices charge the batteries faster and more efficiently than cheaper PWM controllers. In addition, the MPPT controllers are much better in worse lighting conditions (e.g. in the morning, in the evening, or when part of the panel is temporarily shaded).

**Attention!** Solar controllers are adapted to work with solar panels. Do not use them with any other power source.



Regulation Type:	MPPT
Rated voltage:	12 / 24 V
Rated current:	20 A
Permitted voltage range:	<ul style="list-style-type: none"> <li>• 10 ... 40 V for 12 V battery - The range of the highest operating voltage of a set of panels connected to one input of the controller</li> <li>• 20 ... 65 V for 24 V battery - The range of the highest operating voltage of a set of panels connected to one input of the controller</li> </ul>
Output voltage:	Equal to the voltage at the battery terminals
Battery charging current:	max. 20 A
Load Current:	max. 20 A
Main features:	<ul style="list-style-type: none"> <li>• The device is designed to charge AGM, gel and LiFePO<sub>4</sub> batteries,</li> <li>• LED diodes indicating the device operation status</li> </ul>
Weight:	0.79 kg
Dimensions:	171 x 127 x 73 mm
Manufacturer / Brand:	AZO Digital
Guarantee:	2 years