

SCE SCF SCG

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Controls the power going into your battery from solar panels

SOLAR CHARGE CONTROLLER



SCG 0606 SCG 0808 SCG 1010 SCG 1515

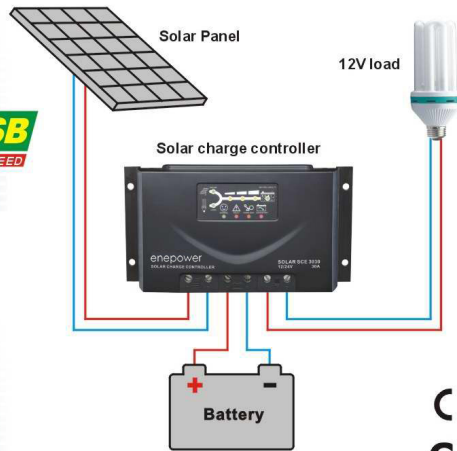


SCF 0606 SCF 0808 SCF 1010 SCF 1515



SCE 1010 SCE 1515 SCE 2020 SCE 3030

CONNECTION:



CE
CB
RoHS



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The simplicity and high performance of new Solar charge controller make it particularly attractive. At the same time, it offers a modern design and a convenient display, all at an extremely attractive price.

Several LED's various colours emulate a tank display, which gives information on the charge status of the battery. Here, latest algorithms are employed in order to guarantee optimal battery maintenance. The Solar charge controller is equipped with an electronic fuse, thus ensuring the optimal protection. They operate on the serial principle, and separate the solar module from the battery, in order to protect it against overcharging.

The Solar charge controllers are universal charge controllers, which means they can be used with lead-acid batteries or gel batteries without the need for complex configuration settings.

For larger projects, the solar charge controllers can also be equipped with special functions. These include the night light function, and selectable charging plateau and deep-discharge protection voltages.

Functions

- ◆ Low-loss series of controller
- ◆ PWM-controlled constant-voltage charging
- ◆ Battery charging with automatic charging mode selection (float, boost, equal)
- ◆ Automatically adjust to voltage level 12 V/24 V
- ◆ Current-dependent load deactivation
- ◆ Automatic load reactivation
- ◆ Temperature compensation
- ◆ Grounding on the plus side
- ◆ Integrated self test (start voltage 17.0 V)

Display

- ◆ LEDs to display battery charge status
- ◆ LEDs (red/green) to display function status

Electronic protection functions

- ◆ Battery-overload protection
- ◆ Deep-discharge protection
- ◆ Automatic electronic fuse
- ◆ Reverse-polarity protection at module input of the load and the battery connection
- ◆ Reverse-polarity protection of the module
- ◆ Short-circuit protection of the load and the module
- ◆ Good electromagnetic compatibility
- ◆ Prevention of back current into the module
- ◆ Integrated temperature compensation of the end-of-charge voltage (0 °C to +50 °C, factor -4mV/K/cell)

Technical data

Solar charge controller / P/No.	SCF 0606	SCF 0808	SCF 1010	SCF 1515	SCE 1010	SCE 1515	SCE 2020	SCE 3030
	SCG0606	SCG 0808	SCG 1010	SCG 1515				
Max module input short circuit current at 50°C	6A	8A	10A	15A	10A	15A	20A	30A
Max load output current at 50°C	6A	8A	10A	15A	10A	15A	20A	30A
System voltage	12 V / 24 V							
Max. voltage of Solar collector	47 V DC							
Enclosure protection class	IP 32							
Ambient temperature allowed	-25°C...+50°C							
Temperature compensation	-4 mV / K / Zelle							
Thermal Protection	85°C							
Terminal size (fine/single wire)	2.5mm ² / 4mm ²				16/25mm ² =4/6 AWG			
Weight	170g				350g			
Dimensions (LxWxH)	130 x 88 x 39 mm				177x 96 x 43 mm			

Charging voltage	State of charge SOC	12V system	24V system
Deep discharge warning	SOC<40%	11.7V	23.4V
Load switch-off	SOC<30%	11.1V	23.4V
Shift-in	SOC>50%	12.5V	25.0V
Boost charging (14.7V / 29.4V)	SOC<40%	11.7V	23.4V
Equalisation charging (14.4V / 28.8)	SOC<70%	12.4V	24.8V
End-of-charge voltage(float)	SOC>70%	13.9V	27.8V

*Specifications are subjected to change without prior notice.