



Solar Charge Controller



CX – Series

CX10, CX20, CX40

Power class

10 A - 40 A



The CX series is a sophisticated solar charge regulator family with exceptional features in this price range. Beside a perfect PWM regulation with integrated temperature compensation the controllers provide extraordinary display-, programming- and safety functions. The battery state of charge is clearly displayed with a bar chart, as well as energy flows from and to the battery and the load status (e.g. overload, load short circuit). The deep discharge protection function can be set up to three different modes: voltage controlled, SOC controlled or adaptive (fuzzy logic).

Acoustic warnings are built in, as well as a programmable night-light function. The CX also provides a built-in excess energy management function which means that in combination with especially designed loads (e.g. Phocos Solar Refrigerators/Coolers SF32E, SF50E) it is possible to make use of excess energy which would be lost otherwise because of the overcharge protection of the battery. A better utilization of the solar system is the benefit. The compact case design is prepared for DIN rail mounting (mounting device available as an accessory).

Features

- acoustic load disconnect pre-warning
- load status indication
- choose between 3 load disconnect algorithms
- boost / absorption / float PWM-regulation
- prepared for DIN rail mounting
- automatic load reconnection
- automatic selection of voltage 12 V / 24 V
- temperature compensation
- full solid-state protection

Displays

- battery state of charge display LCD
- charge and discharge status display



SH-No.:	110000	110001	110002
Solar Charge Controller	CX10	CX20	CX40
system voltage	12 / 24 V		
max. module input current	10 A	20 A	40 A
max. load output current	10 A	20 A	40 A
max. self consumption	< 4 mA		
terminal size	16 mm ²		
enclosure protection class	IP20		
weight	180 g		
dimensions l x w x h	89 x 90 x 39 mm		

Technical data at 25°C / 77°F