



CX10, CX20, CX40 Solar charge regulator with LC display



Power class: 10A – 40A

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 nightlight 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

- Choose between 3 load disconnect algorithms boost/absorption/float PWM-regulation (series type)
- Prepared for DIN rail mounting
- Automatic 12 / 24 Volt detection
- Integrated temperature compensation
- Covered terminals (up to 16mm² wire size)

Electronic Protections

- Full solid-state protection

Displays

- Battery State-of-Charge display LCD
- Charge and discharge status display
- Acoustic load disconnect pre-warning
- Load status indication

10, 20, 40 A solar regulator Data sheet

Solar Charge Controller	CX 10	CX20	CX40
Charge current max.	10A	20A	40A
Load current max.	10A	20A	40A
System voltage	12 V / 24 V	12 V / 24 V	12 V / 24 V
Self power consumption	<4mA	<4mA	<4mA
Dimensions (wxhxd)	89x90x39mm	89x90x39mm	89x90x39mm
Type of protections	IP20	IP20	IP20