



Features:

- State-of-Charge (SOC) LCD Display
- Battery Charge Level Indication
- Audible Warning prior to Load Disconnect
- Load Status Indication
- Three Load Disconnect Algorithms (selectable)
- Boost/Absorbion/Float PWM-Regulation (Series Type)
- Automatic Voltage Detection (12/24 Volt System)
- Integrated Temperature Compensation
- Large Terminals (max. 16mm² conductor size)
- Electronic Protection
- Programmable "Night Light" Function



The CX Series is a sophisticated range of low cost solar charge controllers with exceptional features. State of the art electronics produce accurate PWM regulation, and together with integrated temperature compensation the controllers provide extraordinary display, programming and safety functions.

The battery state of charge (SOC) is clearly indicated with a bar chart display, so are energy flows to and from the battery and the load status such as "Overload", "Load Short Circuit", etc. Protection for "Deep Discharge" can be set in three different modes: Voltage controlled, SOC controlled, or adaptive (Fuzzy Logic). Also included are audible warnings as well as a programmable "Night Light" function.

The CX Series has "Excess Energy" management capability, which provides for maximum load utilisation. With loads such as Phocos Solar Refrigerators and Coolers SF32E / SF50E, specially designed to match CX controllers, it is possible to divert excess energy, which would otherwise be lost due to battery overcharge protection. The ultimate result is better utilization of the solar system. The compact housing is designed to accommodate DIN rail mounting (mounting device available as an accessory).

Technical Specifications

Specifications / Model	CX 10	CX 20	CX 40
System Voltage	12/24 V	12/24 V	12/24 V
Solar Module Current	10 A	20 A	40 A
Max. Load Current	10 A	20 A	40 A
Boost Voltage	14.5/29V (25°C)	14.5/29V (25°C)	14.5/29V (25°C)
Equalization Voltage	14.8/29.6V (25°C)	14.8/29.6V (25°C)	14.8/29.6V (25°C)
Float Voltage	13.7/27.4V (25°C)	13.7/27.4V (25°C)	13.7/27.4V (25°C)
Regulation	<1%	<1%	<1%
Load Disconnect Voltage	11.5-12/23-24V	11.5-12/23-24V	11.5-12/23-24V
Load Reconnect Voltage	12.8/25.6V	12.8/25.6V	12.8/25.6V
Temperature Compensation	-3mV/cell*K	-3mV/cell*K	-3mV/cell*K
Max. Power Consumption	< 4 mA	< 4 mA	< 4 mA
Ambient Temperature Range	-20 to +50°C	-20 to +50°C	-20 to +50°C
Max. Conductor Size	16mm ²	16mm ²	16mm ²
Dimensions (W x H x D mm)	89 x 90 x 39	89 x 90 x 39	89 x 90 x 39
Weight (kg)	0.20	0.20	0.20
Protection	IP20	IP20	IP20

The manufacturer reserves the right to change specifications without prior notice.