



# CXN10, CXN20, CXN40 (Negative Grounding)

## Programmable Solar Charge Controller



- Solar Charge Controller with Negative Ground
- LCD Displays Battery SOC, Charge and Load Status, etc.
- Built-in 1 Year Data Logger for System Analysis
- Choose between 5 load disconnect algorithms
- Temperature compensated 3 Stage (Boost/absorption/float) PWM Series Regulation
- Automatic 12 / 24 Volt detection
- Full solid-state protection
- Prepared for DIN rail mounting (CX-DR2.1)
- Optional external temperature sensor (CXT)
- Optional remote display (CXM multi-meter)
- Optional USB interface (CXI + CXCOM)

The CXN series is a sophisticated solar charge regulator family with negative grounding. Beside a perfect PWM regulation with integrated temperature compensation, the controllers provides 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 five different modes: voltage controlled, SOC controlled or adaptive SOC controlled.

Acoustic warnings are built in, also a programmable nightlight function.

As an accessory we can provide an Excess Energy Management output to control special Phocos appliances like the BCM DC battery charger and DCL DC voltage converter.

The compact case design is prepared for DIN rail mounting (mounting device available as an accessory).

For information about data logging and system analysis see datasheet CXI\_CXCOM\_ENG.pdf

TYPE	CXN10	CXN20	CXN40
Charge Current Max. (A)	10	20	40
Load Current Max. (A)	10	20	40
System Voltage (V)	12 / 24	12 / 24	12 / 24
Self Power Consumption (mA)	<6 mA	<6 mA	<6 mA
Ambient Temperature Range	-25 to +50 °C	-25 to +50 °C	-25 to +50 °C
Dimension (W x H x D)	89 x 90 x 39 mm	89 x 90 x 39 mm	89 x 90 x 39 mm
Weight			
Type of Protection	IP22	IP22	IP22

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