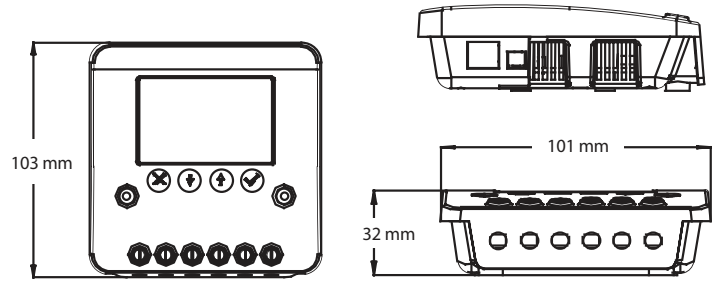


# CXNup Series (10-40 A)

Solar Charge Controller w/ Datalogging and LCD



## Technical Drawing



## Product Introduction

The CXNup series is a highly intelligent charge controller family for a wide range of applications. It features an intuitive user interface and stores up to two (2) years of valuable system performance data, which is accessible via the LCD and PhocosLink software.

Real-time battery voltage, battery state-of-charge (SOC) in percent, charge and load current, and system status are clearly displayed on the large, backlit LCD. The CXNup series offer a USB port to charge mobile phones, tablets and other USB devices. Optional acoustic battery alarms and programmable street light settings are also standard.

## Product Features

- USB charging port
- Datalogger information can be exported
- Load status indication
- Touch keys ensure long lasting operation and eliminates mechanical button failures
- Prepared for 12 or 24 V battery charging
- Suitable for charging systems with up to 1.4 kW
- User friendly LCD shows extensive system information
- 2 year datalogging
- Four-stage PWM charging algorithm with integrated temperature compensation
- Full electronic protection
- Programmable load function suitable for street lights
- Corrosion-resistant screw terminals
- Programmable battery type
- Compatible with LiFePO4 batteries (no communication to battery)

## Optional Accessories



### MXI and MXI-232

- Interface for CXNup controller communication with computer via USB or RS232 interface

## Technical Data

Type	CXNup10	CXNup20	CXNup40
System Voltage	12 / 24 V auto recognition		
Max. Charge Current	10 A	20 A	40 A
Load Current	10 A	20 A	40 A
Float Charge	13.8 / 27.6 V (25 °C)		
Main Charge	14.4 / 28.8 V (25 °C), 0.5 h daily		
Boost Charge	14.4 / 28.8 V (25 °C), 2 h activation: battery voltage < 12.3 / 24.6 V		
Equalization Charge	14.8 / 29.6 V (25 °C), 2 h activation: battery voltage < 12.1 / 24.2 V (at least every 30 days)		
Deep-Discharge Protection	11.5-12.0 / 23.0-24.0 V (by SOC) 11.0-11.5 / 22.0-23.0 V (by voltage)		
Reconnect Level	12.8 / 25.6 V		
Overvoltage Protection	15.5 / 31.0 V		
Undervoltage Protection	10.5 / 21.0 V		
Max. PV Panel Voltage	30 V / 50 V		
Temperature Compensation	-25 mV/K (12 V); -50 mV/K (24 V)		
Idle Self-Consumption	<4 mA (backlight off); <12 mA (backlight on)		
Grounding	Common Negative		
Ambient Temperature	-40 to +60 °C		
Max. Altitude	4,000 m above sea level		
Battery Type	Lead acid (gel, AGM, flooded), LiFePO4 (selectable)		
Datalogger	2 years		
USB Charging Port	5.0 V, 1.5 A		
Max. Wire Cross Section	16 mm <sup>2</sup> (AWG 6)		
Dimensions (WxHxD)	101 x 103 x 32 mm / 4 x 4.1 x 1.3 in		
Weight	0.18 kg / 0.39 lbs		
Ingress Protection	IP22		
Certificates	CE compliant, RoHS compliant		
Warranty	5 years		