

## CXup series (10 – 40 A)

Solar Charge Controllers with LC Display and USB port



- User friendly LC display shows extensive system information
- Four-stage PWM charging algorithm with integrated temperature compensation
- Full electronic protection
- Programmable nightlight function
- USB charging port
- Data logger information can also be exported
- Load status indication
- Touch keys ensure long lasting operation

The CXup series offers outstanding features in its class. In addition to sophisticated PWM charge regulation with integrated temperature compensation, the CXup controllers provide a user friendly LC display, programmable parameters, and various safety functions. Furthermore, battery state

of charge, energy flow from and to the battery, as well as load status (e. g. overload, load short circuit) can be clearly visualized. An Acoustic alarm and a programmable night-light function are built-in.

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Type	CXup 10	CXup 20	CXup 40
System voltage	12/24 V auto recognition		
Max. charge/load current	10 A	20 A	40 A
Float charge (lead acid battery)	13.8/27.6 V (25 °C)		
Main charge (lead acid battery)	14.4/28.8 V (25 °C), 30 min. (daily)		
Boost charge (lead acid battery)	14.4/28.8 V (25 °C), 2 h Activation: battery voltage < 12.3/24.6 V		
Equalization charge (lead acid battery)	14.8/29.6 V (25 °C), 2 h Activation: battery voltage < 12.1/24.2 V		
Charge voltage for LiFePO4 battery	14.0/28.0 V (temperature limit: -20 to +60 °C)		
Deep discharge protection: Cut-off voltage	Lead acid battery: 11.5-12.0 V / 23.0-24.0 V by SOC; 11.0 - 11.5 V / 22.0 - 23.0 V by voltage LiFePO4 battery: 11.5/23.0 V by voltage		
Reconnect level	12.8/25.6 V for lead acid battery; 12.2/24.4 V for LiFePO4 battery		
Overvoltage protection	15.5/31.0 V		
Undervoltage protection	10.5/21.0 V		
Max. panel voltage (Surge protection by varistor)	30 V in 12 V system 50 V in 24 V system		
Temperature compensation (Charge voltage)	-25 mV*K at 12 V -50 mV*K at 24 V		
Idle self-consumption	< 4 mA		
Grounding	Positive grounded		
Ambient temperature	-40 to +60 °C		
Max. altitude	4,000 m above sea level		
Battery type	Lead acid (GEL, AGM, flooded), LiFePO4		
Data logger	2 years		
USB charging port	5.0 V; 1,500 mA		
External temperature sensor	Yes		
Wire cross section	Up to 16 mm <sup>2</sup>		
Dimensions (W x H x D)	101 x 103 x 32 mm		
Weight	168 g		179 g
Type of protection	IP20		