

CX48 V series (20 – 40 A)

Solar Charge Controller with LC Display



- LCD - Charge and discharge status display
- Audible alert before load disconnect
- Load status indicator
- 5 load disconnect algorithms
- Four-stage PWM charging (series type)
- Integrated temperature compensation
- Full electronic protection

The CX48 Series offers outstanding features for its class: Along with a PWM charge controller with integrated temperature compensation, the CX controller comes equipped with an extensive range of control, programming and safety functions. The battery charge status is continuously displayed via a bar graph, including the input and

output current of the battery as well as the load status (e. g. overloading, load short circuiting). The deep discharge protection mode has 5 settings: two fixed voltages, two charging states or adaptive (for battery protection). An audible alarm and a programmable nightlight function are standard on all CX controllers.

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Type	CX48 20	CX48 40
System voltage	24/48 V auto recognition	
Max. charge/load current	20 A	40 A
Float charge	27.4/54.8 V (25 °C)	
Main charge	28.8/57.6 V (25 °C), 30 min. (daily)	
Boost charge	28.8/57.6 V (25 °C), 2 h Activation: battery voltage < 24.6/49.2 V	
Equalization	29.6/59.2 V (25 °C), 2 h Activation: battery voltage < 24.2/48.4 V	
Deep discharge protection:		
State of charge dependent	A: 22.8 – 23.8 V / 45.6 – 47.6 V B: 22.0 – 23.5 V / 44.0 – 47.0 V	
Voltage dependent	A: 22.0/44 V B: 23/46 V	
Adaptive	22.0 – 24.4 V / 44.0 – 48.8 V	
Reconnect level	25.6/51.2 V	
Overvoltage protection	31.0/62.0 V	
Undervoltage protection	21.0/42 V	
Max. panel voltage	50 V in 24 V system	
(Overvoltage protection by varistor)	95 V in 48 V system	
Max. PV Voc.	90 V	
Temperature compensation	–50 mV/K at 24 V	
(Charge voltage)	–100 mV/K at 48 V	
Self consumption	< 10 mA	
Grounding	Positive grounding	
Ambient temperature	–20 to +50 °C	
Max. height	4,000 m above sea level	
Battery type	Lead acid GEL, AGM, flooded	
Wire cross section	=< 16 mm ²	
Weight	348 g	365 g
Dimensions (W x H x D)	110 x 92 x 58 mm	
Type of protection	IP22	