

C SERIES

C12, C35, C40, C60



Bornay Xantrex Serie C PWM

A charge controller is an important system component that regulates the voltage generated from your renewable energy system and properly maintains your batteries. It protects your batteries from being over and under charged, and ensures maximum battery life. The C Series offers four models: the C12, C35, C40, and C60, designed for 12, 35, 40, and 60 amps of DC current. Considered to be the best in the industry, Xantrex Charge Controllers offer a variety of features.

Features

- Silent, pulse width modulated (PWM), high efficiency operation
- Three-stage battery charging (bulk, absorption, and float) with optional temperature compensation
- Automatic overload protection in both active and passive modes
- PV array short-circuit and reverse polarity protection
- Durable construction
- Microprocessor controlled

As a Solar Charge Controller

- When used as a solar charge controller, the C40 can control 12, 24, or 48 Vdc array operation; the C35 and C60 can control 12 and 24 Vdc array operation and C12 can control 12 Vdc array operation.
- All units offer selectable settings for NiCad, flooded lead acid, gel, or absorbed glass mat batteries

As a DC Load Controller

- As a DC load controller, the C Series has a low voltage disconnect warning indicator and field adjustable set points that govern automatic low and high voltage disconnect
- Manual reset switch for emergency low voltage operation

As a Diversion Controller

- The C Series automatically directs extra power to a dedicated load, such as an electric water heater, and ensures batteries are never over charged

Options

- Plug-in battery temperature sensor for increased charging precision
- Cumulative amp-hour meter (CM) that can be installed remotely (CM/R), up to 100 feet (30 m) away.

SPECIFICATIONS

	C12	C35	C40	C60
Electrical specifications				
Voltage configurations	12 Vcc	12, 24 Vcc	12, 24, 48 Vcc	12, 24 Vcc
Max. PV open circuit array voltage	30 Vcc	55 Vcc	125 Vcc	55 Vcc
Charging / Load current (25 °C)	12 Amp	35 Amp	40 Amp	60 Amp
Max. peak current	20 Amp	85 Amp	85 Amp	85 Amp
Max. voltage drop through controller	0,15 V	0,30 V	0,30 V	0,30 V
Typical operating consumption	7 mA	15 mA	15 mA	15 mA
Recommended breaker size	15 Amp	45 Amp	50 Amp	60 Amp
Pb-NiCad battery settings	Adjustable			
Regulation method	Solid state, three-stage (bulk, absorption, and float), pulse width modulation.			
Equalization charge	User selectable manual or automatic equalization - every 30 days			
Load control mode	Low voltage reconnect - adjustable. Low voltage disconnect - user selectable manual or automatic reconnection.			
General specifications				
Temperature range	0 to 40 °C			
Enclosure type	Indoor, ventilated, powder coated steel with knockouts.			
Weight (Unit / shipping)	0,9 / 1,13 Kg	1,2 / 1,4 Kg	1,4 / 1,6 Kg	1,4 / 1,6 Kg
Unit dimensions	16,5 x 11 x 4 cm	20,3 x 12,7 x 6,4 cm	25,4 x 12,7 x 6,35 cm	25,4 x 12,7 x 6,35 cm
Shipping dimensions	20,3 x 11,7 x 4 cm	31,5 x 17,8 x 6,4 cm	31,5 x 17,8 x 6,4 cm	31,5 x 17,8 x 6,4 cm
Warranty	2 years	2 years	2 years	2 years
Options				
Display model	No	CMR - Remote display model. Alphanumeric display showing battery voltage, DC amperage, cumulative amp hours, and amp hours since last reset - Includes 15 m cable.		
Battery temperature sensor	Optional	BTS - Remote temperature sensor.		

DOWNLOADS



Catálogo General Bornay 14-15 (10.41 MiB)