

Trace C40

12V, 24V or 48V Solar Charge Controller

TRACE

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. 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.
- 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 remote temperature sensor (BTS) for increased charging precision.
- Cumulative amp-hour meter (CM) that can be installed on the face of the controller, or remotely (CM/R), up to 100 feet (30 m) away.



Electrical Specifications

Voltage Configurations	12, 24, and 48 VDC
Max. PV Open Circuit Array Voltage	125 VDC
Charging / Load Current (@ 25 °C)	40 amps DC
Max. Peak Current	85 amps
Max. Voltage Drop Through Controller	0.30 volts
Typical Operating Consumption	15 ma
Typical Idle Consumption	3 ma
Recommended Breaker Size	50 amps
Recommended Wire Size	#8 AWG
Lead Acid Battery Settings	Adjustable
NiCad Battery Settings	Adjustable
Load Control Mode	Low Voltage Reconnect - Adjustable (sticker provided with unit) Low Voltage Disconnect - User selectable manual or automatic reconnection - includes warning flash before disconnect and provides a one time, user selected grace period)