

BC Series Battery Chargers (12V & 24V)

15, 25, 30 and 50A Smart Chargers



International multi-bank chargers designed for boat builders

A smart multi-stage charger providing the ultimate in battery care, the Xantrex BC Charger was designed with reliability in mind. Intensive stress testing during the design process means this multi-plex charger will perform in even the most demanding conditions. A unique drip proof design prevents water from damaging the charger by forcing moisture to drain away. The BC Charger also meets FCC Class B regulations to eliminate interference potential with other electronics, while UL Marine certification means it meets strict marine safety standards.

Versatile enough to be installed either horizontally or vertically, the BC Charger can be installed in virtually any compartment or space. Ignition protection also conveniently increases the installation options for the BC Charger. Mounting templates make installation quick and easy, while an optional remote panel, intelligent shunt, and temperature sensors allow builders to customize the system to their requirements.

The BC Charger was designed to be compatible with marine electrical systems anywhere in the world. Available in both 12V and 24V versions in several power levels, there is a model to meet most builders' requirements. Auto-ranging AC input means this charger will operate and deliver the correct charge when connected to virtually any AC source in the world. The BC Charger also meets important design standards like CE and e-Mark, ensuring it can be easily utilized in European markets.

Performance Features

- ▶ 12 volt models available in 30A & 50A (BC3012 & BC5012)
- ▶ 24 volt models available in 15A & 25A (BC1524 & BC2524)
- ▶ Microprocessor-controlled, multi-stage charging algorithms
- ▶ Three independently-controlled output banks accommodate different battery chemistries and states of charge simultaneously
- ▶ Settings for flooded, gel, AGM, lead-calcium or custom battery types*
- ▶ Auto-ranging universal input voltage (100-260 VAC, 47-63Hz) is also compatible with generator or other low quality power sources
- ▶ Independent temperature compensated charging on each of the three output banks
- ▶ Power Factor Corrected for efficient charging
- ▶ Battery equalization feature
- ▶ Upgradeable for network communications
- ▶ Ability to charge 'dead' batteries (< 6V)
- ▶ Easily accessible DIP switches allow quick configuration of the charger for battery types, 2 or 3 stage charging, and remote or local control
- ▶ Includes one battery temperature sensor; additional battery temperature sensors available (part #808-0232-01)
- ▶ Optional remote digital display (part #808-8011-00)
- ▶ Optional intelligent shunt available (part #808-8022-00) to measure amp-hours consumed

Protection Features

- ▶ True reverse polarity protection (no fuses)
- ▶ IP32 environmental enclosure rating against moisture
- ▶ Over temperature protection
- ▶ DC over voltage protection
- ▶ Ignition protection

*Custom battery type programming requires network upgrade

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Electrical Specifications				
Models	BC3012	BC5012	BC1524	BC2524
Output Current	30A	50A	15A	25A
Output Voltage	12VDC	12VDC	24VDC	24VDC
Input Voltage	100-260VAC 47-63Hz			
Power Factor Correction	Yes	Yes	Yes	Yes
Multi-Stage Charging	Selectable 2 stage, 3 stage, or custom			
Temperature Compensation	3 channels	3 channels	3 channels	3 channels (additional sensors required)
Charger Efficiency (nominal)	80%	80%	83%	83%
Battery Types Accommodated	AGM, PBCa Gel, or flooded on any channel			
Recommended Battery Size	100Ah and Larger			

General Specifications				
Operating Temperature Range	0 - 50 °C (50 - 65 °C de-rated)			
Storage Temperature	- 40 °C to 80 °C			
DC Output Connections	M6 Studs			
AC Input Connections	Hardwire			
Dimensions (mm)*	99 x 240 x 343			
Weight - kg (lb)	5 (11)	6 (13.2)	5 (11)	6 (13.2)
Battery Temperature Sensor	1 included			
Warranty	2 yr	2 yr	2 yr	2 yr
Part Number	804-4012	804-6012	804-3524	804-5524

*Including mounting flanges

Options	
Battery Temp Sensor	for 2nd and 3rd banks - all models
Intelligent Shunt / Battery Monitor	for all models
Digital Remote Display	for all models

Regulatory Approvals
Designed to meet CSA 107.2, UL 1564, UL 1236 including Marine Supplement, Ignition Protection
EMC FCC Class B
CE marked, meeting LVD and EMC directives, as well as VCA compliance (e-mark)

Note: Specifications subject to change without notice.

- 1 Onboard status panel for monitoring charger status and charging current.
- 2 Easily accessible DIP switches allow quick configuration of the charger.

