



15, 25, 30 and 50A
Smart Chargers

Multi-bank chargers designed to provide the ultimate in battery care

Xantrex XC Battery Chargers are designed to provide longer battery life by independently controlling the charge profile for each battery bank. The XC is the first "smart" charger that can charge up to 3 different battery chemistries simultaneously. This unique multiplex design means that boaters can choose the optimal battery type for each application on their boat without concern about battery damage from either under- or overcharging.

Available in both 12 and 24 volt models, XC Chargers are unmatched for reliability. In addition to meeting global safety and emission standards, XC Chargers feature a unique drip-proof design and fuseless reverse polarity protection to ensure trouble-free charging.

Designed primarily for marine applications, XC Chargers are versatile enough to be used in a wide variety of conditions and locations. Auto-ranging AC input voltage capability (100-260VAC) makes travelling abroad and handling poor quality power a breeze. The easy-to-read digital display is invertable to accommodate either horizontal or vertical installations, and can be detached and mounted wherever needed. An optional intelligent shunt provides a simple "fuel gauge" capability that displays amp-hours consumed from a selected battery bank.

Performance Features

- ▶ 12 volt models available in 30A & 50A (XC3012 & XC5012)
- ▶ 24 volt models available in 15A & 25A (XC1524 & XC2524)
- ▶ 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
- ▶ Invertible and detachable digital display
- ▶ Ability to charge 'dead' batteries (< 6V)
- ▶ Includes one battery temperature sensor; additional battery temperature sensors available (part #808-0232-01)
- ▶ Optional intelligent shunt available (part #808-8020-00) 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

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Electrical Specifications

Models	XC3012	XC5012	XC1524	XC2524
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	>60Ah	>100Ah	>30Ah	>50Ah

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)*	106 x 240 x 368			
Weight - kg (lb)	5 (11)	6 (13.2)	5 (11)	6 (13.2)
Digital Remote Display	Included			
Battery Temperature Sensor	1 included			
Warranty	2 yr	2 yr	2 yr	2 yr
Part Number	804-3012	804-5012	804-1524	804-2524

*Including mounting flanges

Options

Battery Temp Sensor	for 2nd and 3rd banks - all models
Easy Shunt / Battery Monitor	for all models

Regulatory Approvals

Meets 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 Remote display for all programming functions and monitoring of the XC Series.
- 2 Onboard status panel for monitoring charger status and charging current at the XC Series when the remote display is mounted remotely from the charger.

