BatteryLINK®

MULTISTAGE CHARGER — INTEGRATED ACR

BLUE SEA® SYSTEMS

Don't get stranded with a dead battery

CE **5 YEAR WARRANTY**

Charge two batteries with shore power or the engine's alternator.

- **AC charging at the dock or garage:**
  Use AC shore power to charge two isolated battery banks with the 3 stage battery charger

- **DC charging away from the dock or garage:**
  Share the DC power from the alternator with both the Start and the Auxiliary battery through the integrated ACR

- Emergency jump start by combining both batteries if start battery is low (20A model only) - single pole/single throw switch required (sold separately)

- Battery temperature compensation prolongs battery life

- Start isolation protects sensitive electronics from voltage sags and spikes

- Includes LED remote indicator for charge status at the helm

- Snap-on insulating cover

- Meets ABYC, CSA, IP67, UL 1236, SAE J1171, ISO 8846 Marine, Ignition Protected standards

20A Battery Charger - 170A ACR

Temperature Sensor 1820 and LED Remote Indicator included with 10A & 20A BatteryLink Chargers

10A Battery Charger - 65A ACR

NAVICO GROUP

Specs

BLUE SEA SYSTEMS

Nominal Output Voltage	12V DC
Output Connections	2 positive, 1 negative
Universal AC Input	100V-240V AC, 50/60 Hz
Typical Float Voltage (25°C)	13.5V DC
Typical Absorption Voltage (25°C)	14.4V DC
ACR Combine Voltage	13.0V
ACR Open Voltage	12.75V
Terminal Stud Size	1/4"-20 (accepts M6 ring terminal)
Maximum 1/4" Terminal Stud Torque	60 in-lb (6.8 Nm)
Positive Terminal Stud Size (20A model)	3/8"-16 (accepts M10 ring terminal)
Maximum 3/8" Terminal Stud Torque	140 in-lb (15.8 Nm)
Quick Connect Terminal Size	1/4" x 0.032"
Warranty	5 Year
Battery Types	Flooded, AGM, TPPL

TECH TIP

AC & DC Battery Charging Explained

DC Charging (Away from the Dock or Garage)

The BatteryLink Charger incorporates DC charging through an integrated Automatic Charging Relay (ACR). An ACR uses a relay combined with a voltage sensing circuit. When a DC charge is applied to the start battery, and causes the voltage to rise above 13.0V, the relay closes and combines the two batteries to share the charge. When the charge is taken away or a load on the battery causes the voltage to drop below 12.75V, the relay will open, isolating the two batteries. This means that even when the BatteryLink Charger is disconnected from AC power you can charge both your battery banks with a DC charging source, like an engine alternator.

AC Charging (At the Dock or Garage)

The BatteryLink Charger is powered by AC when the cord is plugged in, and will source current to charge your batteries. However, unlike a typical two bank charger, the BatteryLink Charger will charge both batteries simultaneously using the integrated ACR. This works in the same way as when an external DC charging source is used. When AC power is applied, and the voltage of the start battery rises above 13.0V, the ACR will close. This combines the batteries, allowing charge current to flow to the auxiliary battery as well as the start battery. For this reason, the BatteryLink Charger can only be used in 12V applications.

Specifications subject to change. See bluesea.com for current information.

North American Models

Part #	Total Output Current	ACR Continuous	Plug Style
7605	10A	65A	North American: NEMA 5-15P
7608	20A	170A	North American: NEMA 5-15P

Regulatory

Designed and constructed for compliance to UL-1236 Marine, CSA 22.2 No. 107.2 and ABYC A-31 standards. Ignition protected per ISO 8846 and SAE J1171. Meets FCC Part 15, Class B requirements. Designed and tested to comply with California Energy Commission (CEC) efficiency standards.
Waterproof IP67 - protected against immersion up to 1 meter for 30 minutes.
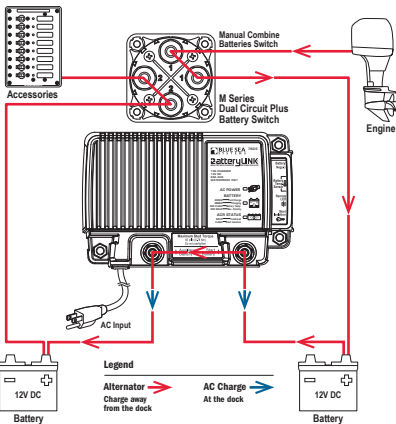
International Models

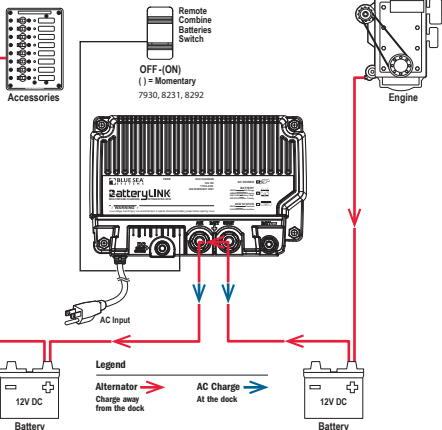| Part #	Total Output Current	ACR Continuous	Plug Style
7604	10A	65A	European: CEE 7/7
7603	10A	65A	International: Bare wire
7607	20A	170A	European: CEE 7/7
7606	20A	170A	International: Bare wire
7609	20A	170A	Australia/New Zealand: AS/NZS 3112

Regulatory

CE Certified, Designed and constructed for compliance to EN60335-2-29.
Ignition protected per ISO 8846 and SAE J1171.
Waterproof IP67 - protected against immersion up to 1 meter for 30 minutes.

Operational Diagrams

10A BatteryLink Chargers

20A BatteryLink Chargers

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