



BLUE SEA SYSTEMS INTRODUCES AUTOMATIC CHARGING RELAY FOR SUPERIOR MARINE BATTERY MANAGEMENT

Proper battery management is vital to safe boating and fishing, especially with the increased power demands of today's vessels. Even small boats are bristling with navigation, communications and fishfinding electronics — together with bait pumps, washdown pumps and other systems — that can drain a battery fast.

To meet this critical need, marine electrical systems innovator Blue Sea Systems has introduced its *Model 9112 Automatic Charging Relay* for 12V and 24V DC systems. Boaters need never to hear that sickening "click" upon turning the key, reminding them too late that they need to think about their batteries. Unlike "passive" battery isolator switches (which have to be manually moved by the operator), Blue Sea Systems' *Model 9112 Automatic Charging Relay* automatically disconnects battery banks during discharge and connects them during the charging cycle.

Blue Sea Systems' *Model 9112 Automatic Charging Relay* activates when receiving a charge from either the engine alternator or an external battery charger. This means that each battery bank automatically gets the charge it needs, whether your boat is running flat out or waiting in your driveway for a sunrise trip to the lake. Automatic closure of the relay occurs when the higher battery has remained at the required voltage for at least 30 seconds. When the voltage drops below the charging voltage, the relay opens to prevent accidental discharge of an unintended battery bank.

When installed using Blue Sea Systems' optional control switch, the *Model 9112 Automatic Charging Relay* can be turned off, set to automatic or manually closed. This allows for easy overriding of the system should boaters want to parallel the battery banks for emergency engine starting. Unlike most other charging relays on the market, the *Model 9112 Automatic Charging Relay* has a hefty 500 A Cranking Rating that can easily handle most engines found on recreational boats today.

Blue Sea Systems' *Model 9112 Automatic Charging Relay* is compact and easy to install in a variety of boat styles and mounting locations. It is constructed for reliable performance in the demanding marine environment, with hermetically sealed contacts; an output for "ON" indicating LED, and a pulse circuit that requires very little current draw when the contact is closed. It is vapor proof, and meets SAE J1171 standards for external ignition protection.

For more information about the new *Model 9112 Automatic Charging Relay* or any of Blue Sea Systems' premium marine electrical products, contact: Blue Sea Systems, 425 Sequoia Drive, Dept. P., Bellingham, WA 98226 • Telephone: (360) 738-8230 • Or visit the company's website at www.blueseasystems.com.