



SOLAR STIK®

Marine Charge Control Upgrade Kit

Solar Boost 1524iX – Item # 05-1000015
IPN-ProRemote Display – Item # 05-1000013

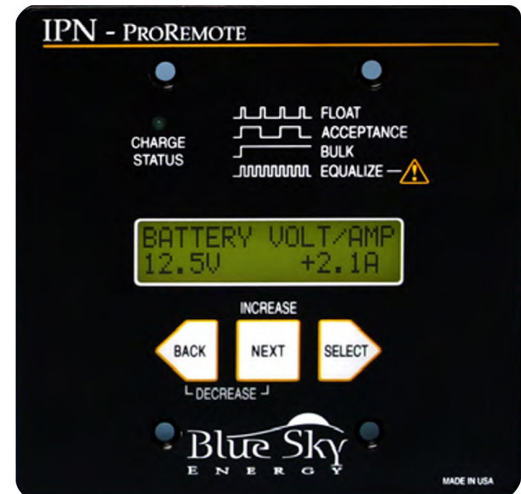
Overview

The Marine Charge Control Upgrade Kit provides enhanced features in comparison to the read-only Solar Boost 3000i charge control that's included with the Marine 100 System. This kit includes the Solar Boost 1524iX with IPN-ProRemote Display, a programmable solar charge control that provides options for:

- Charging a secondary battery pack
- Integration of additional PV panels
- Networking of up to (8) additional Solar Boost 1524iX charge controls

Like the Solar Boost 3000i, the Solar Boost 1524iX uses Maximum Power Point Tracking (MPPT) technology, which allows the controller to increase charge current up to 30 percent more when compared to conventional charge controllers. The Solar Boost 1524iX delivers up to 20 amps in 12 VDC systems and 15 amps in 24 VDC systems per charge controller.

Why choose the Marine Charge Control Upgrade Kit? When solar panels with varying output are tied to a single charge control, the System will operate only to the maximum output of the lowest rated panel. However, the IPN-ProRemote can operate with up to eight (8) Solar Boost 1524iX charge controls. Thus, if the user would like to add additional solar panels to the system, panels with similar rated outputs can be tied to the same charge control, providing the most efficiency and maximum power production.



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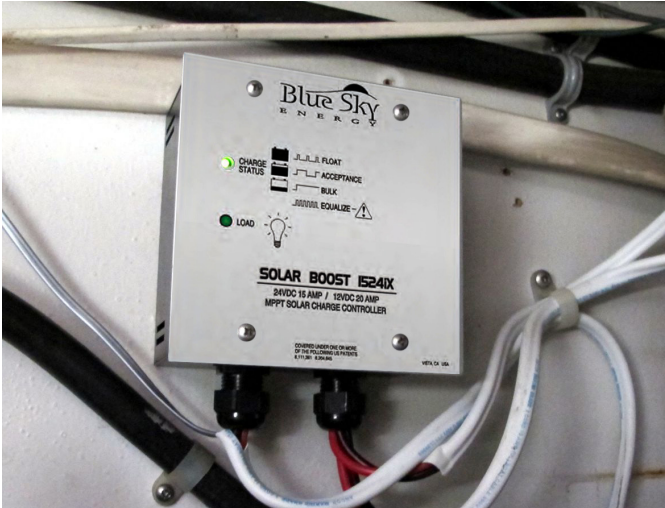
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Solar Boost 1524iX

Output Current Rating	<ul style="list-style-type: none"> • 20 amps maximum (12 V battery and 12 PVs) • 15 amps maximum (battery or PVs > 12 V nominal)
Nominal Battery Voltage	12 / 24 VDC
PV Input Voltage	57 VDC maximum (recommended maximum V_{oc} at STC \leq 45.6 VDC)
Auxiliary Output Function	Single output configurable as EITHER 20-amp 12 V / 15-amp 24 V load controller OR 2-amp auxiliary battery charger
Auxiliary Battery Charge	2 amps typical, same charge voltage as primary battery
Load Control	20 amps / 15 amps maximum, ON \geq 12.6 VDC* / OFF \leq 11.5 VDC* (Range 10.0–40.0 VDC**, or battery amp hours from full**)
Dusk-to-Dawn Control**	Variable post-dusk and pre-dawn timers**, range 0.5–20.0 hours

* Voltages double for 24 V battery

** With IPN-ProRemote, which may be used as a setup tool only. Charge voltage setpoints may require modification with IPN-ProRemote based on battery manufacturer's recommendations.



IPN-ProRemote

Battery Size	20–10,000 amp hours
Remaining Battery Capacity	0–100% in 1% increments, based on charge/discharge amp hour counting, self-discharge rate, and self-tuning charge efficiency. Appropriate factors temperature compensated*.
Full Charge Determination	Automatically matched to IPN charge controller setup
Panel Dimensions	4.5 x 4.5 x 1.5 in (11.4 x 11.4 x 3.8 cm)
Communication, Power, and Cabling	Requires IPN network-compatible charge controller. Receives communication and power from charge controller via standard four-pin telephone cable. Charge controller cable length to 500 ft (152.5 m) with proper cabling. Current shunt connection via twisted pair cable. Length to 300 ft (91.5 m) with proper cabling.

* With optional battery temperature sensor

