



Industry Leaders In Mppt Solar Charge Controllers

Solar Boost Charge controllers are used worldwide to provide power in battery based or off-grid systems. Used in a variety of applications from RV, marine, homes, and remote cabins to industrial and commercial. We have products for solar lighting, wind, hydro, telecom, portable solar, and security camera applications to name a few. Whatever the industry, Solar Boost products are selected because of their proven reliability, consistent quality and affordable prices. NEW in 2009 is our SB3024iL DUO Solar/Wind or Hydro option. We have combined the benefits of our MPPT Solar charging with Wind or Hydro diversion control all at the same time in the same controller. No longer do you need separate controllers for solar and wind/hydro. The SB3024iL DUO Option does it all!

More information can be found on our web site or contact us for more details. www.blueskyenergyinc.com



Pump Systems



Combining Wind & Solar



Marine & Recreational



Telcommunications



Solar Lighting

QUALITY....RELIABILITY....BLUE SKY ENERGY, CHANGING THE WAY SOLAR IS USED EVERYDAY

Selector guide – Solar Boost™ Maximum Power Point Tracking (MPPT) Solar Charge Controllers & Accessories

Charge Controller	Nominal Battery Voltage	Nominal PV Input Voltage ①	Maximum PV Power ②	Maximum Output Current	Charge Algorithm	Digital Display	Remote Display Capability	Load Control	Lighting Control	Agency Approvals	Typical Applications
Solar Boost 2000E	12V	12V	350W	25A	2-stage, plus Equalization	Yes	No	No	No	—	Small to medium 12V systems; RV's, boats, small off grid cabins & small industrial
Solar Boost 50L	12/24V	12/24V	700W (12V) 1400W (24V)	50A	3-stage, plus Equalization	Optional	Yes	No	No	ETL/cETL CE, FCC	Medium to large 12/24V systems; larger RV's & Boats, on or off grid homes & larger industrial
Solar Boost 3048L	24/48V	24/48V	800W (24V) 1600W (48V)	30A	3-stage, plus Equalization	Optional	Yes	No	No	ETL/cETL CE, FCC	Medium to large 24/48V systems; on or off grid homes, larger industrial & telecomm
Solar Boost 6024HL	12/24V	36/48V	800W (12V) 1600W (24V)	60A	3-stage, plus Equalization	Optional	Yes	No	No	ETL/cETL CE, FCC	Large 12/24V systems where higher 36/48V input is desired to reduce wire size/cost; large on or off grid homes & larger industrial
Solar Boost 3024iL	12/24V	12/24V	540W (12V) 800W (24V)	40A (12V) 30A (24V)	3-stage, plus Equalization	Optional	Yes	Yes 20A Voltage or AH based	Yes, Post-dusk & Pre-dawn timers	ETL/cETL CE, FCC	Medium 12/24V systems; larger RV's & Boats, on or off grid cabins & industrial. Aux. output for load control or 2 nd battery charge. IPN™ network to coordinate multiple units for larger systems.
Solar Boost 2512i	12V	12V	350W	25A	3-stage	No	Yes	No	No	—	Small to medium 12V systems; RV's, Boats, small off grid cabins & small industrial. Includes limited IPN network interface to support IPN displays.
Solar Boost 2512iX	12V	12V	350W	25A	3-stage, plus Equalization	No	Yes	Yes 25A Voltage or AH based	Yes, Post-dusk & Pre-dawn timers	—	Small to medium 12V systems; RV's, Boats, small off grid cabins & industrial. Aux. output for load control or 2 nd battery charge. IPN™ network to coordinate multiple units for larger systems

① Nominal PV module voltage must be greater than or equal to nominal battery voltage. PV V_{oc} rating at STC should not exceed maximum controller rating $\div 1.25$. See Technical Bulletins 100214 & 100210. Typical 12V nominal PV module provides $V_{MP} \approx 17V$ & $V_{oc} \approx 21V$ at STC.

② Approximate maximum PV power handling capability after applying NEC 1.25 current derating. See Technical Bulletins 100214

Options & Accessories	Compatible Charge Controller	Agency Approvals	Typical Applications and Features
SB50 Display	SB50L 3048L, 6024HL	ETL/cETL CE, FCC	Available installed in product enclosure (append 'D' to p/n) and/or as a remote charge control display. Provides simple display of Input/Output current, Battery Voltage and Charge System Status.
IPN-ProRemote	SB3024i(L), 2512i(X) & future IPN based charge controllers	ETL/cETL CE, FCC	Full featured remote display combines both charge controller monitoring/setup and complete battery system monitoring. Includes highly accurate "fuel gauge" type battery capacity display. The IPN-ProRemote can monitor up to 8 IPN based charge controllers.
IPN-Remote	SB3024i(L), 2512i(X) & future IPN based charge controllers	ETL/cETL CE, FCC	Low cost remote display provides a simple Battery Voltage and Solar Charge Current display for IPN base charge controllers. The IPN-Remote can monitor up to 8 charge controllers on the IPN network.
DUO-Option	SB3024i(L)	ETL/cETL CE, FCC	Converts 20 amp auxiliary output into separate diversion type charge controller. Provides both diversion control for wind/hydroelectric and PV MPPT in the same unit. Configurable for minimum or maximum possible power to the dump load. Available as factory option or field upgrade.
CBM4070	SB3024i(L), 2512iX	CE	External high current MOSFET switch Current Booster Module. Increases DC load current capability of SB3024i(L) and 2512iX to 70 amps for lighting or similar DC load applications. Increases SB3024i(L) DUO-Option diversion PWM current capability to 40 amps.
Battery Temperature Sensor	All Solar Boost charge controllers	ETL/cETL CE, FCC	Allows charge controller to automatically adjust charge voltage setpoints based on measured battery temperature.