

SOLAR BOOST SB1524iX




Multi-Stage MPPT Solar Charge Controller

Flexible, reliable, and ready to work! The SB1524iX, featuring our patented MPPT technology, with a second battery output and IPN connector for remote display, is ideal for RVs and Marine applications. The SB1524iX can manage a 20A at 12V (or 15A at 24V) load output for small off-grid electrification applications. When programmed with an IPN Pro Remote or UCM, it is also ideal for PV street lighting with its dusk-to-dawn load control. It can also charge Lithium batteries when paired with the IPN Pro Remote or UCM. Its IPN Network interface can communicate with other Blue Sky Energy charge controllers as a single charging system, allowing increased flexibility and optimization in system design.



Product features

- Patented MPPT technology charges batteries faster
- Hassle-free auto-detection for 12V or 24V systems
- Networks with other Blue Sky controllers for higher power and better charging
- Fuller charges and longer battery life with advanced multi-stage charging (FLA,AGM,GEL)
- Equalize batteries automatically or manually
- Charge a second battery or control a DC load output
- Program for Dusk-to-Dawn Lighting Control with the IPN Pro Remote  (click icon for timer programming)
- Battery Temperature Compensation (with external battery temperature sensor)
- Protects battery from deep discharge (via load output)
- Automatically reconnects load when power is available

Display

- LEDs for charge and load status
- Remote Display optional

Protection

- PV array overload
- PV array reverse polarity
- Battery reverse polarity

Accessories

- IPN Remote - remote display for monitoring one or more controllers
- IPN ProRemote - remote display w/ programming and battery monitoring
- UCM - monitor and program controllers online
- External battery temperature sensor

Warranty

- Full 5 Year Limited Warranty (Tech. Bulletin #100218)



SB1524iX		
Specifications		
Battery Voltage	@12V	@24V
PV Input Current	20A 36 cell PV 15A 60 cell PV	15A
Maximum PV Power	270W 36 cell PV 200W 60 cell PV	400Wp
Conversion Efficiency	97% typical @ 28V / 12A Output	
Power Consumption	0.20W typical standby	
PV Input Voltage (Voc)	45.6V maximum at STC	
Battery Charging		
Charge Algorithm	3stage Bulk/Absorption/Float (Adjustable) Automatic Equalize	
Absorption Voltage	14.2V	28.4V
Float Voltage	13.2V	26.4V
Equalization Voltage	15.2V	30.4V
DC Output		
Auxiliary Output	<ul style="list-style-type: none"> • Aux. Battery Charge max 2A • Load Control 20A(@12V), 15A(@24V) • Dusk-to-Dawn (by IPN ProRemote) 	
Load Control	LVR 12.6V LVD 11.5V	LVR 25.2V LVD 23.0V
Operation Conditions		
Temp. Compensation (by optional temp sensor)	-5.00 mV/°C/cell correction factor (Range 0.00 to -8.00 mV/°C/cell)	
Environmental	-40 to +50°C	
Mechanical		
Degree of Protection	IP 20	
Dimension (X,Y,Z)	(5.3, 5.3, 2.75)" (13.5, 13.5, 6.9)cm	
Weight	1.15lb (525g)	

