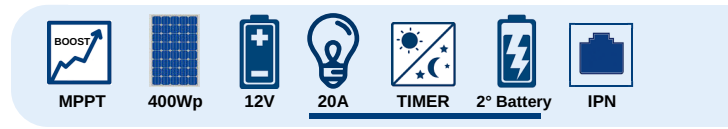


SOLAR BOOST SB3000i

Multi-Stage MPPT Solar Charge Controller



Compact, reliable, and fully programmable: the SB3000i is ready to work! The SB3000i, featuring our patented MPPT technology, is ideal for RVs and Marine applications with a second battery output and IPN connection for remote display and networking. This controller can be programmed from its onboard display or in conjunction with an IPN ProRemote. This gives maximum flexibility when operating PV street lighting or using for small-scale off-grid electrification. Compatible with FLA, AGM, Gel, and Lithium batteries. 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
- 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
- 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
- LED display with programming for battery voltage, charge current and [...XXX]
- 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
- Mounting Wall Box (720-0011-01)

Warranty

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



SB3000i	
Specifications	
Battery Voltage	@12V
PV Input Current	30A with 36 cell PV ; 22A with 60 cell PV
Maximum PV Power	400W with 36 cell PV ; 290W with 60 cell PV
Conversion Efficiency	97% typical @ 14V / 24A Output
Power Consumption	0.36W typical standby
PV Input Voltage (Voc)	40V maximum at STC
Battery Charging	
Charge Algorithm	3-Stage Bulk/Absorption/Float (Adjustable) Automatic Equalize
Absorption Voltage	14.4V (programmable)
Float Voltage	13.2V (programmable)
Equalization Voltage	15.2V at 2h each 30 days (programmable)
DC Output	
Auxiliary Output	<ul style="list-style-type: none"> • 2° Batt. Charge 2A (Factory Default) • Load Control 20A • Dusk-to-Dawn Load Control 20A
Load Control	<ul style="list-style-type: none"> • LVR 12.6V (programmable) • LVD 11.5V (programmable)
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 +45°C
Mechanical	
Degree of Protection	IP 20
Dimension (X,Y,Z)	(6.35, 4.6, 2.2)" (16.1, 11.7, 5.6)cm
Weight	1.08lb (493g)

