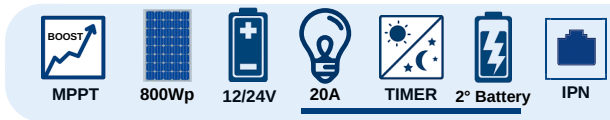


SOLAR BOOST SB3024iL

SOLAR BOOST SB3024DiL




Multi-Stage MPPT Solar Charge Controller

Great for mid-sized systems, the SB3024 charge controller family, featuring our patented MPPT technology, handles up to 800W of PV power at 24V. This controller is ideal for RVs and Marine applications with its auxiliary output for charging a second battery, and can utilize a remote display with its IPN connectivity. The SB3024iL or -DiL will manage up to a 20A load output for off-grid electrification or telecommunication systems. When programmed with the IPN Pro Remote or UCM, it can be used for PV street lighting, utilizing its smart dusk-to-dawn load control feature. 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 (iL)
- LED display for battery voltage, charge current, and [...XX] (DiL)
- 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)



SB3024iL(DiL)		
Specifications		
Battery Voltage	@12V	@24V
PV Input Current	40A 36 cell PV 30A 60 cell PV	30A
Maximum PV Power	540W 36 cell PV 400W 60 cell PV	800Wp
Conversion Efficiency	97% typical @ 28V / 24A Output	
Power Consumption	0.35W typical standby	
PV Input Voltage (Voc)	45.6V maximum at STC	
Battery Charging		
Charge Algorithm	3stage Bulk/Absorption/Float (Adjustable) Automatic Equalize	
Absorption Voltage	14.4V	28.8V
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 • 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 +40°C	
Mechanical		
Degree of Protection	IP 20	
Dimension (X,Y,Z)	(6.86, 6.6, 3.38)" (17.4, 16.8, 8.6)cm	
Weight	3.95lb (1.8Kg)	

