

## SB1524iX : MPPT Solar Charge Controller by Blue Sky



Price: CAD \$259.00 - CAD \$279.00

**SKU:** BSSB1524iX

**Product Categories:** [Charge Controllers](#), [MPPT - Max Power Point Tracking](#), [MPPT : 10A-19A](#), [MPPT : 20A-29A](#), [MPPT Specialty](#), [Shop](#)

**Product Tags:** [12v](#), [15A](#), [20a](#), [24V](#), [agm](#), [blue sky](#), [blue sky SB1524iX](#), [canada](#), [gel](#), [genasun](#), [lfp](#), [Lighting](#), [lithium](#), [marine](#), [MPPT](#), [mppt charge controller](#), [mppt controller](#), [rv](#), [sb1524ix canada](#), [sign](#), [sunforge](#), [van](#)

**Product Page:**

<https://www.modernoutpost.com/product/blue-sky-sb1524ix-mppt-solar-charge-controller/>

### Product Variants

- SB1524iX : MPPT Solar Charge Controller by Blue Sky - BSSB1524IX ( )
- SB1524iX : MPPT Solar Charge Controller by Blue Sky - BSSB1524IX-Li ( )

## Product Summary

Here's a versatile, premium, USA built MPPT controller designed for smaller systems. The SB1524iX(-Li) features Blue Sky's (Sunforge) patented MPPT technology, and a set of features you typically only find on larger controllers. Designed to process 20A @12V (or 15A @24V), this controller finds application in small off-grid projects such as street lighting, irrigation controls, traffic signals & signage, RV, and marine.

## Product Description

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The SB1524iX is programmed for Lead Acid batteries and the SB1524iX-Li is programmed for charging LiFePO4 batteries. Both versions can be programmed with a remote display, UCM, or BT Connect for a custom charge profile for any type of batteries.

### SB1524iX Features

- Patented MPPT technology, hassle-free auto-detection for 12V or 24V systems
- Networks with other Blue Sky controllers for higher power
- Fuller charges and longer battery life with advanced multistage charging (FLA, AGM, GEL)
- Surface or Flush Wall Mounting
- Charge a second battery or control a DC load output with Low Voltage Disconnect (LVD)
- Program for Dusk-to-Dawn Lighting Control with the IPN ProRemote, UCM, or BT

## Connect

- Battery Temperature Compensation (with external battery temp. sensor)
- Programmable for Lithium batteries with the IPN ProRemote, ProTouch, or BT

## Connect

- IPN Networks up to 8 Blue Sky Energy controllers for higher power (Master-Followers)

## DC Load Output

Great for small off-grid electrification applications. The DC Load Output can be programmed with its dusk-to-dawn load control for PV street lighting via Blue Sky's IPN ProRemote, BT Connect, or UCM.

## Solar Module Versatility

The dual 15/20 amp rating will deliver up to 15A in 24V (24V battery or 60-cell solar) or 20A in 12V systems. Observe the maximum Voc input voltage when pairing with solar panels, and be sure to adjust for cold-weather solar voltage rise.

## Display

- LEDs for charge and DC load output status
- Remote Display optional (IPN ProRemote, ProTouch, IPN Remote)

## Electronic Protections

- PV array overload and reverse polarity
- Battery reverse polarity

## Available Accessories

- IPN Remote - remote display for monitoring
- IPN ProRemote - remote display w/ programming and battery monitoring
- ProTouch - touchscreen remote display for monitoring and basic programming
- BT Connect - Bluetooth adapter for programming and battery monitoring
- UCM - gateway for monitoring and programming via the Internet
- External battery temperature sensor

Blue Sky SB1524iX Specifications...

## Maximum PV Power:

270 W with 36-cell PV panel

400 W with 72-cell PV panel

200 W with 60/72-cell PV panel

**Rated Battery (Output) Current:**

20 A with 36-cell PV panel

15 A with 72-cell PV panel

15 A with 60/72-cell PV panel

Conversion Efficiency: 97% (typical @28V / 12 A output)

Power Consumption: 0.20 W (typical standby)

Recommended Max Panel Voc at STC: 45.6 V (Max Panel Input 57 V)

Min. Battery Voltage for Operation: 9 V

**Auxiliary Output** (option A, B, or C):

A) Auxiliary Battery Charge 2A (2nd battery)

B) DC Load Control with LVD

C) Dusk-to-Dawn (by IPN ProRemote, UCM, BT Connect)

**Connection Terminals:**

Battery and PV terminals #20-10 AWG (tightened 9 in-lb, 1 nm)

Auxiliary Output terminals #20-10 AWG (tightened 9 in-lb, 1 nm)

IPN Network terminals #24-14 AWG wire (tightened 2.1 in-lb, 0.24 nm)

**Environmental**

Operating Temperature: -40°C to 50°C

Maximum Full Power Ambient: 50 °C

Environmental Protection: IP20

Dimensions: 5.3 x 5.3 x 2.5" (13.5 x 13.5 x 6.35 cm)

Weight: 1.15 lb. (525 g)

Warranty: 5 years

Certifications: CE, RoHS, FCC

Two Pre-Programmed Models To Choose From...

**Both models can be re-programmed in any way necessary SB1524iX**

Battery Chemistry: 12 V Lead Acid 24 V Lead Acid

Absorption Voltage: 14.2V (2) 28.4V

Float Voltage: 13.2V (2) 26.4V

Equalization Voltage (if enabled): 15.2V (2) 30.4V

Temperature Compensation (by optional Battery Temp. Sensor) : -5.00 mV/°C/cell  
correct factor (Range 0.00 to -8.00 mV/°C/cell)

### **SB1524iX-Li**

Battery Chemistry : 4S LiFePO4 8S LiFePO4

Absorption Voltage : 14.4 V / 28.8 V

Absorption Time 0.5 Hr / 0.5 Hr

Float Voltage 13.6 V / 27.2 V

Temperature Compensation Disabled

SB1524iX Documentation Downloads

[Blue-Sky\\_SB1524iX-Li\\_Data-Sheet-Rev.-2.0\\_AP SB1524iX User Manual](#)

### Product Attributes

- Dimensions: 1 &times; 1 &times; 1 cm
- Weight: .9 kg
- Model: BSSB1524IX, BSSB1524IX-Li