

BT Connect Manual

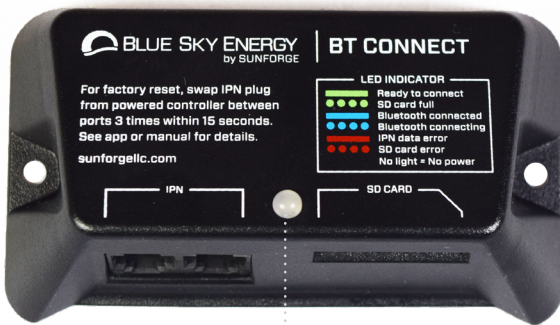
Bluetooth Adapter | Revision 2.1 2026

The BT Connect is a Bluetooth adapter for Blue Sky Energy solar charge controllers. Paired with the free BT Connect smartphone app, it provides wireless monitoring of real-time system data and historical performance, and allows easy programming of battery charging parameters and other setpoints. The BT Connect works with all IPN-capable Blue Sky Energy products, including the SB3000i, SB3024iL/DiL, SB1524iX, SB2512iX-HV, and IPN remote displays. It can also log detailed system data to an SD card for long-term record-keeping and system analysis.

Download the BT Connect mobile app.

Instant access to your system's real-time data, historical trends, setpoint controls and more.

- Scan the QR code or visit <https://sunforgellc.com/bt-connect> to download the iOS app. Android version is coming soon.
- Compatible with iOS phones and tablets.
- The BT Connect can connect to one mobile device at a time.
- **Note:** Connect to the BT Connect through the app. Do not connect using your device's Bluetooth menu.
- The default BT Connect PIN code for pairing is: 123455.



LED Indicator Key

If the LED is not illuminated, the BT Connect is not powered on.

- Ready to connect
- SD card full
- Bluetooth connected
- Bluetooth connecting
- IPN data error
- SD card error
- Connect to set clock



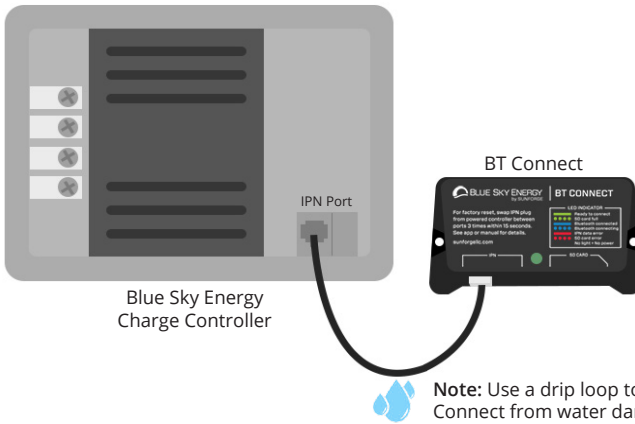
SD card is optional and not included.

One RJ-11 cable is included. Second cable is optional and is used to connect to an IPN display.

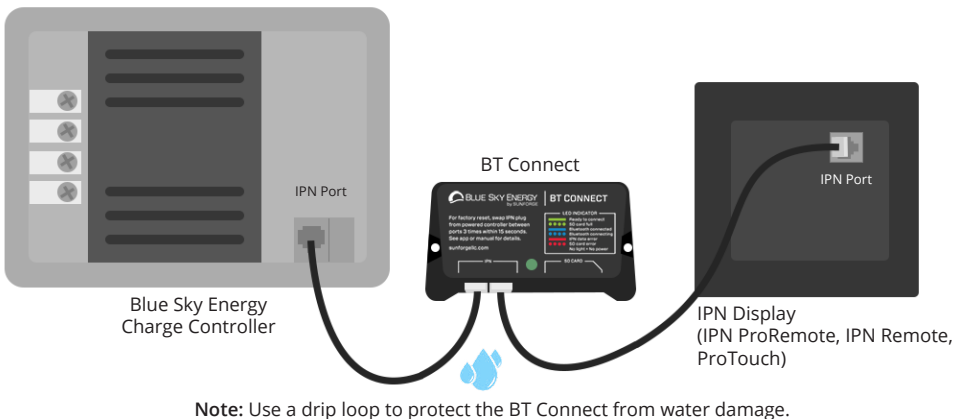
Installation:

- Choose a mounting location for the BT Connect near the Blue Sky Energy solar charge controller (or remote display) and in an area that will stay dry. For best range, keep the BT Connect away from metal and outside of any metal enclosures.
- Mount the BT Connect using the mounting holes.
- Using the supplied cable (or the existing display cable), connect the BT Connect to the charge controller. Either port of the BT Connect may be used.
- If an additional IPN accessory (IPN ProRemote, IPN Remote, ProTouch, or UCM) is present, connect it to the second BT Connect IPN port.
- For a longer distance between charge controller and BT Connect, replace the 18" RJ-11 cable included with the BT Connect with a longer RJ-11 telephone cable with "reversed" pinout.
- If there are multiple Blue Sky Energy charge controllers installed in a system, the BT Connect may be plugged into any of them.
- Example installations are shown in the wiring diagrams below.

BT Connect and Charge Controller



BT Connect, Charge Controller and IPN Display



SD Card:

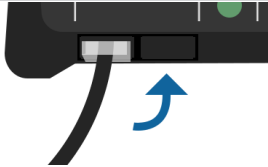
- SD Card is optional.
- The BT Connect will save historical data to a CSV file when SD card is inserted.
- Supports FAT32-formatted SD cards.
- If the LED light is blinking red upon insertion, try reinserting the card and check the card format.
- **Note:** IPN Error LED indication may look similar to the SD Card error indication. The LED light blinks red twice per second if there is an SD card error. The LED light will remain constant red for at least 2 seconds if it is indicating an IPN error.

Factory Reset:

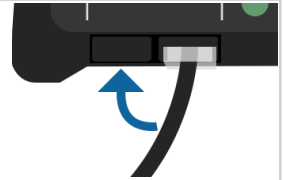
The BT Connect may be factory reset from within the app, however, in case of connection difficulties, you can use this procedure:

1. Plug the BT Connect into a powered Blue Sky Energy charge controller.
2. Remove any other display or accessory plug from the second IPN port of the BT Connect.

3. Next, unplug the IPN cable from the BT Connect and plug it into the other IPN port of the BT Connect.



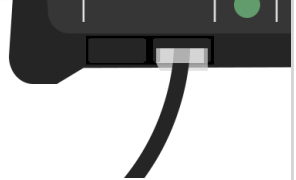
4. After about a second, when the LED turns back on, unplug the IPN cable and plug it into the original port.



5. Finally, after another second, when the LED turns back on, unplug the IPN cable and plug it into the second port.



6. When reset is effective, the LED light on the BT Connect will flash.



This process of swapping the IPN cable between the ports three times should be completed within 15 seconds for reset to occur. Once reset has been completed, original factory settings will be restored to your BT Connect and all historical data will be erased. It will NOT erase data from an installed SD Card or from your phone's local storage.

Troubleshooting Guide:

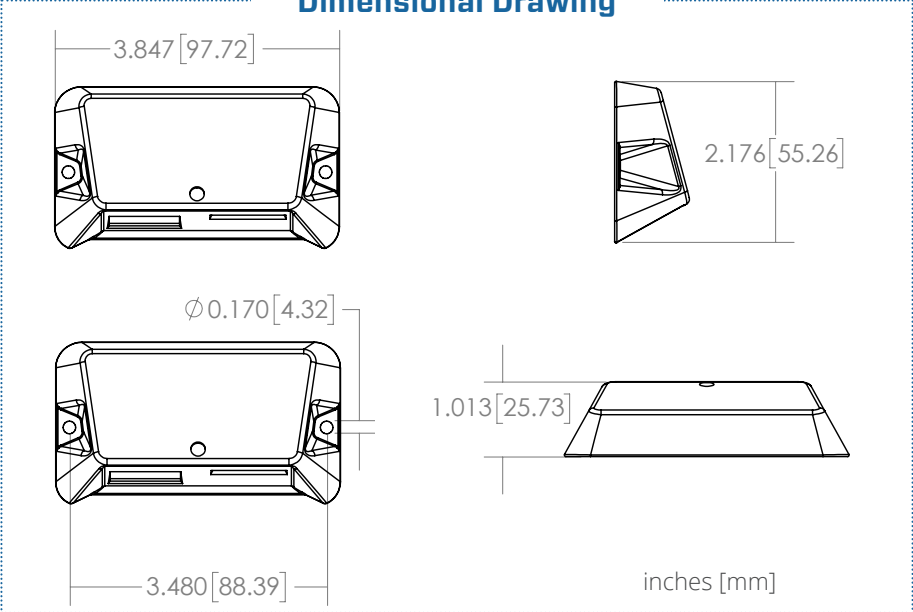
- **Trouble pairing:** If your device cannot pair with the BT Connect, you will see the LED indicator flash blue. If this occurs, navigate to your phone's Bluetooth menu and remove the pairing information. Refer to your phone or tablet's Bluetooth instructions or the Help section of the app for more information. After removing the BT Connect from your phone's Bluetooth list, attempt to connect through the app's Bluetooth menu and re-enter the pairing PIN.

- **BT Connect not available:** If the BT Connect does not appear on the app's Bluetooth screen, check to make sure the LED is green and that you are within range. Also ensure that your device's Bluetooth capability is turned on and that the app is scanning for new devices.
- If the LED indicator is blue, the BT Connect may have connected to the phone without the app. Navigate to your phone's Bluetooth menu and disconnect. Return to the app and connect through the app's Bluetooth menu. If the phone was not connected to the BT Connect, there may be another device connected. The BT Connect can only connect to one device at a time.

Specifications:

Dimensions:	3.85 " x 2.18 " x 1.02 ", 97.8 mm x 55.3 mm x 25.8 mm
Weight:	1.4 oz, 40 g
Mounting:	#8, #6, or M4 pan-head screws, 3.48 "/88.4 mm centers
Power Consumption:	~25 mW typical
Supplied Cable:	18 ", 460 mm, RJ-11 "reversed" pinout
Data Storage:	90 days internal. Unlimited with phone or SD card
Signal Range:	100 feet (30 m)
IP Rating:	IP40
Operating Temperature:	-40 °C - 80 °C
Certifications:	FCC (contains FCC ID: 2AA9B10), RoHS

Dimensional Drawing



5-year limited warranty:

Visit <https://sunforgellc.com/bt-connect> for more information and terms of the warranty.

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