

## GVB-8-Li Genasun MPPT Solar Charge Controller for Lithium



Price: CAD \$249.00 - CAD \$409.00

**SKU:** GNGVB8li

**Product Categories:** [MPPT : 30A-39A](#), [Charge Controllers](#), [MPPT : 4A-9A](#), [MPPT Specialty](#), [Shop](#)

**Product Tags:** [36v](#), [41.7v](#), [8A](#), [boost](#), [canada](#), [genasun](#), [genasun canada](#), [genasun gvb-8-li-41.7v](#), [gvb-8](#), [gvb-8-li canada](#), [lithium](#), [lithium battery](#), [MPPT](#), [solar charge controller](#), [solar controller](#)

**Product Page:**

<https://www.modernoutpost.com/product/gvb-8-li-genasun-mppt-solar-charge-controller-for-lithium/>

### Product Variants

- GVB-8-Li Genasun MPPT Solar Charge Controller for Lithium - 12V ( )
- GVB-8-Li Genasun MPPT Solar Charge Controller for Lithium - 24V ( )
- GVB-8-Li Genasun MPPT Solar Charge Controller for Lithium - 36V ( )

- GVB-8-Li Genasun MPPT Solar Charge Controller for Lithium - 48V ( )
- GVB-8-Li Genasun MPPT Solar Charge Controller for Lithium - CUSTOM ( )

## Product Summary

GVB-8-Li is the Genasun MPPT Solar Boost Charge Controller for 8A 105-350W solar modules & Lithium-Ion batteries. The industry's most efficient boost controllers are a natural pairing for high-efficiency lithium batteries such as LiFePO4, LiCO, LiMn, and LiNi. These controllers boost lower-voltage solar panels up to charge lithium batteries properly.

## Product Description

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GVB-8-Li : 8A 12/24/36/48V Boost MPPT Controller Features

- 99% Peak Efficiency - Continuous MPPT - IP40 - Advanced electronic protections - 5-Year Warranty - CE, FCC, and RoHS compliant

Genasun GVB-8 (Boost) 105-350W MPPT Solar Boost Charge Controller for Lithium Batteries

**Want to see a 27V grid-tie panel charge a 48V battery pack? Get a GVB.** Most solar charge controllers move power from a higher voltage panel to a lower voltage battery bank. The GVB-series controllers, in contrast, pump electricity up

hill. These controllers will take a lower voltage panel and boost the voltage to charge a 24V, 36V or 48V battery pack. In fact, the GVB's will work with almost any panel that's below your battery voltage. Larger panels are cheaper per Watt than smaller panels, so using one large panel and a boost controller results in a significantly lower system cost than smaller panels in series with a conventional charge controller.

### **Mission-Critical Reliability**

Genasun controllers are deployed to the most remote locations on earth. They endure years at sea, harsh Antarctic winters, freezing conditions in the upper atmosphere on solar powered airplanes, and in a few off-the-map locations. Made in the USA, each controller is put through complete electrical testing to ensure reliability. If you need mission-critical power, this is your controller.

### **High-Speed MPPT: Always on Target**

Not all Maximum Power Point Tracking controllers were created equally. Most use a sweep and sleep method that scans the entire voltage range every 30-60 seconds. That's okay for a clear day, with a stationary panel. But moving vehicles and changing cloud cover require a faster, more advanced controller. Genasun controllers adapt to changing light conditions 15 times every second. They are always on target, capturing every bit of available sunshine. Simply put, other controllers can't keep up.

### **Advanced Lithium Charging Algorithms**

Drawing on more than 10 years of advanced lithium battery and controller development, Genasun offers a complete line of lithium solar charge controllers. These units employ industry-standard Constant-Current Constant-Voltage (CC/CV) charging for widest battery compatibility.

### **Custom Voltages Available**

Genasun stocks the GVB-8 (Boost) in 12V, 24V, 36V, and 48V nominal charge profile for LiFePO4 batteries. The standard float voltages correspond to 3.55V per cell for compatibility with most batteries (check with your battery manufacturer to be sure). Custom voltages can be programmed at the factory to match the float Voltage (CV voltage) of your battery. For ordering a Custom Voltage controller, hit

the "Customize" button in the e-commerce page and select the custom voltage from the drop down. For further information email to [techsupport@blueskyenergyinc.com](mailto:techsupport@blueskyenergyinc.com).

## **Made in the USA**

GVB-8-Li Features...

### **LED Display**

The built-in LED will quickly tell you that you've installed the controller correctly. Simple to read, it will also let you know when the battery is charging from solar power, and when the battery has reached full charge.

### **Marine Grade: Reliable Power After Years at Sea**

Genasun Boost controllers provide reliable power in the harshest environments on earth. GVB's have been powering boats on round-the-world sailing races for years.

### **No Fans. No Relays.**

Fans get clogged with dust and dirt. Relays eventually stop switching. Genasun controllers use advanced electrical design that obsoletes these parts. With fewer moving parts to wear out, Genasun controllers outlast the competition.

GVB-8-Li Specifications in Brief...

Rated Panel (Input) Current : 8A\*

Minimum Panel Voltage for Charging : 5V

Minimum Battery Voltage for Operation : 9.5V

Input Voltage Range : 0-60V

Tracking Efficiency : 99+% typical

MPPT Tracking Speed : 15Hz

Float/CV Voltage : 14.2V / 28.4V / 41.7V / 56.8V / Custom

Nominal Battery Voltage :

12V: 4S LiFePO4 / 24V: 8S LiFePO4 / 36V: 10S Li-ion / 48V: 16S LiFePO4 / Other Lithium

Maximum Recommended Panel Vmp :

13V / 26V / 39V / 43V / CC/CV voltage

Maximum Recommended Panel Power :

105W / 210W / 325W / 350W / CC/CV voltage

Operating Temperature : -40°C – 85°C

Maximum Full Power Ambient : 70°C

Environmental Protection : IP40 (Nickel-Plated Brass & Stainless Hardware)

Connection : 4-position terminal block for 10-30AWG wire

Certifications: cETLus Safety, Recognized Component cETLus HazLoc (C1D2), CE, FCC, RoHS

Weight : 6.5 oz., 185g

Dimensions : 5.5 x 2.5 x 1.2", 14 x 6.5 x 3.1 cm

Warranty : 5 years

\*Panel ratings have increased since we designed the GVB. Although we don't believe in changing specifications without a corresponding engineering change, based on both our customers' experiences over the years as well as the headroom we designed into the GVB, we feel comfortable recommending the GVB for panels with Imp up to 9A.

\*\*Panel Isc. Maximum input power and maximum input voltage requirements must also be respected.

\*\*\*Maximum current that the controller could draw from an unlimited source. This specification is not intended for determining PV input.

[Product Data Sheet](#)

[Product Selection Guide](#)

## Product Attributes

- Dimensions: 1 &times; 1 &times; 1 cm
- Weight: .3 kg

- Battery Nominal: 12V, 24V, 36V, 48V, CUSTOM