

Genasun GVB-8-Pb-WP : 8A MPPT Controller



Price: CAD \$259.00 - CAD \$315.00

SKU: GVB-8-WP

Product Categories: [MPPT : 40A-59A](#), [Charge Controllers](#), [MPPT : 4A-9A](#), [MPPT Specialty](#), [Shop](#)

Product Tags: [36v](#), [48v](#), [8A](#), [canada](#), [genasun](#), [genasun canada](#), [gvb-8-pb-36v-wp](#), [gvb-8-pb-48v-wp](#), [gvb-8-pb-wp](#), [gvb-8-wp](#), [MPPT](#), [mppt charge controller](#), [solar charge controller](#), [waterproof](#)

Product Page:

<https://www.modernoutpost.com/product/genasun-gvb-8-wp-8a-mppt-controller/>

Product Variants

- Genasun GVB-8-Pb-WP : 8A MPPT Controller - 12V ()
- Genasun GVB-8-Pb-WP : 8A MPPT Controller - 24V ()
- Genasun GVB-8-Pb-WP : 8A MPPT Controller - 36V ()

- Genasun GVB-8-Pb-WP : 8A MPPT Controller - 48V ()

Product Summary

The GVB-8-Pb-WP is a Waterproof Solar Boost MPPT Charge Controller for solar modules in the 105-350W range. Available in several models to support nominal battery voltages of 12V, 24V, 36V, or 48V.

Free shipping In Canada

Product Description

The GVB-8-Pb-WP is a Waterproof Solar Boost MPPT Charge Controller for solar modules in the 105-350W range. Available in several models to support nominal battery voltages of 12V, 24V, 36V, or 48V. This is the Waterproof edition.

The Genasun GVB-8-Pb-WP Runs circles around the Competition

You have a limited amount of space. Advanced electronics in the GVB controller extract more usable power from your panel than any other controller. These solar charge controllers are fully waterproof, which makes them ideal for small vehicles and other applications where the controller will be exposed to moisture.

GVB-8-WP 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.

Built-in Fuse

The GVB controller comes with a fuse built into the power line. This will keep your cart operating safely, reduce the chance of an incorrect installation, and allow end-users to make a quick fuse replacement if needed.

Waterproof: Go ahead, hose it off.

The advanced electronics inside your controller are encased in a proprietary potting compound. After extensive testing with a variety of formulations, we developed a perfect potting compound for our GVB controllers. This extra level of protection ensures trouble-free operation in real-world golf-cart and other vehicular applications.

Boosting Panel Voltage Saves Money

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 golf cart solar charge controllers will take almost any solar panel and boost the voltage to charge a 36V or 48V battery pack. Because these controllers feature true MPPT, no configuration is necessary; the controller will automatically adapt to your panel. 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, not to mention simpler wiring and installation.

Unmatched Reliability

Genasun controllers are deployed to the most remote locations on earth. They continue delivering power after years at sea, through harsh Antarctic winters, in the upper atmosphere on solar powered airplanes, and in a few off-the-map locations. Each controller we ship has passed a thorough electrical test 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 requires 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.

Computer Controlled, Temperature-Compensated 3-Stage Battery Charging

Precise computer controlled charging ensures the optimal charge cycle for your battery. This increases the battery life, and maximizes battery capacity.

Made in the USA

GVB-8-Pb-WP Specifications...

For Lead-Acid Batteries

GVB-8-Pb-12V

GVB-8-Pb-24V

GVB-8-Pb-36V

GVB-8-Pb-48V

GVB-8-Pb-CV

Rated Panel Input Current

8A*

Minimum Panel Voltage for Charging

5V

Minimum Battery Voltage for Operation

9.5V

Maximum Input Panel

60V

Recom. Max Panel Voc at STC

50V

Input Voltage Range

0-60V

Maximum Input Short Circuit Current**

8A*

Maximum Input Current***

15A

Tracking Efficiency

99+% typical

MPPT Tracking Speed

15Hz

Charge Profile

Multi-Stage with Temperature Compensation

Nominal Battery Voltage

12V

24V

36V

48V

See specs for closest -Pb equivalent

Maximum Recommended Panel Vmp

13V

26V

41V

43V

See specs for closest -Pb equivalent

Maximum Recommended Panel Power

105W

210W

325W

350W

See specs for closest -Pb equivalent

Bulk Voltage (Pb models)

14.4V

28.8V

43.2V

57.6V

See specs for closest -Pb equivalent

Absorption Voltage

14.2V

28.4V

42.6V

56.8V

See specs for closest -Pb equivalent

Absorption Time

2 Hours

See specs for closest -Pb equivalent

Float Voltage (Pb models)

13.8V

27.6V

41.4V

55.2V

See specs for closest -Pb equivalent

Electrical Efficiency

95%-97% typical

96%-98% typical

96%-98% typical

96%-99% typical

See specs for closest -Pb equivalent

Night Consumption

7mA

6mA

6mA

5mA

See specs for closest -Pb equivalent

Battery Temperature Compensation

-28mV/°C

-56mV/°C

-84mV/°C

-112mV/°C

See specs for closest -Pb equivalent

Maximum Full Power Ambient

70°C

Environmental Protection

IP40 (Terminals Nickel Plated)

Connection

4-position terminal block for 10-30AWG wire

Certifications

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

Weight (DiL)

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.

[Download the GVB-8 Data Sheet\]](#)

Product Attributes

- Dimensions: 1 × 1 × 1 cm
- Weight: .9 kg
- Battery Size: 12V, 24V, 36V, 48V