

Reliability & efficiency down to a science.

Marine | RV | Industrial | Military | Street Lighting | Off-Grid

Get your money's worth with Genasun. A true problem-solver, the unique GVB charge controller with MPPT allows a lower-voltage solar panel to charge higher-voltage batteries. Want to charge a 24V battery with a 48-cell solar panel? No problem. A 48V battery from a 12V panel? We've got you covered. With 99% peak efficiency and the ability to charge with as little as 5V of input, they are the industry's most efficient voltage-boosting controllers.

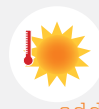


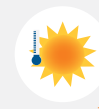
GVB-8


8A MPPT @ 12-48V

- Built-in fuse
- 99% peak efficiency
- Ultra-fast true MPP Tracking
- Excellent low-light performance
- Compact for easy installation
- Available for lithium batteries

Take advantage of Genasun's advanced MPPT technology and enjoy more reliable power from smaller panels.

 **+10%**
additional power
in the summer.
No panel is too
hot to handle.

 **+30%**
more power on
those shorter,
colder winter days.

 **+50%**
increase in
energy harvest
from partially
shaded panels.

Typical power gains from Genasun MPPT controllers vs the best PWM controllers available.



www.genasun.com Sold through Blue Sky Energy
(760) 597-1642 sales@blueskyenergyinc.com

Specifications:

GVB-8-Pb-12V GVB-8-Pb-24V GVB-8-Pb-36V GVB-8-Pb-48V GVB-8-Li-. *V**

| | | | | | |
|--|---|-------------------|-------------------|-------------------|---|
| Rated Panel (Input) Current: | 8A* | | | | |
| Minimum Panel Voltage for Charging: | 5V | | | | |
| Minimum Battery Voltage for Operation: | 9.5V | | | | |
| Maximum Input Panel: | 60V | | | | |
| Recommended Max Panel Voc at STC: | 50V | | | | |
| Input Voltage Range: | 0-60V | | | | |
| Maximum Input Short Circuit Current**: | 8A* | | | | |
| Maximum Input Current***: | 15A | | | | |
| Charge Profile: | Multi-Stage with Temperature Compensation | | | | CC-CV |
| Nominal Battery Voltage: | 12V | 24V | 36V | 48V | (See specs for closest -Pb equivalent.) |
| Maximum Recommended Panel Vmp: | 13V | 26V | 41V | 43V | |
| Maximum Recommended Panel Power (8A Panel w/-155mm cells): | 105W | 210W | 325W | 350W | |
| Bulk Voltage: | 14.4V | 28.8V | 43.2V | 57.6V | - |
| Absorption Voltage: | 14.2V | 28.4V | 42.6V | 56.8V | - |
| Absorption Time: | 2 Hours | | | | - |
| Float Voltage (Pb models) or CV Voltage (Li models): | 13.8V | 27.6V | 41.4V | 55.2V | **.*V as specified in part number |
| Battery Temperature Compensation: | -28mV/°C | -56mV/°C | -84mV/°C | -112mV/°C | - |
| 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 | |
| Tracking Efficiency: | 99+% typical | | | | |
| MPPT Tracking Speed: | 15Hz | | | | |
| Operating Temperature: | -40°C - 85°C | | | | |
| Environmental Protection: | IP40 (Terminal Connectors Nickel Plated) | | | | |
| Connection: | 4-position terminal block for 10-30AWG wire | | | | |
| Weight: | 6.5oz., 185g | | | | |
| Dimensions: | 5.5x2.5x1.2", 14x6.5x3.1cm | | | | |
| 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.

Certifications:   