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, they are the industry's most efficient voltage-boosting controllers. True MPPT delivers consistent performance, unlike the "Nominal MPPT" of competitors. The advanced electronics inside the controller are encased in a proprietary potting compound making them ideal for golf-cart, marine, and vehicle applications.



GVB-8-WP (BOOST)

8A MPPT @ 12-48V

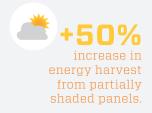
- Waterproof •
- 99% peak efficiency
 - In-line fuse •
- Ultra-fast true MPP Tracking •
- Excellent low-light performance •
- Wire leads for easy installation •

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





more power on those shorter, colder winter days.



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



Specifications:

GVB-8-WP, All Models

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			
Tracking Efficiency:	99+% typical			
MPPT Tracking Speed:	15Hz			
Operating Temperature:	-40°C - 85°C			
Maximum Full Power Ambient:	70°C			
Enviromental Protection:	IP68, Waterproof			
Connection:	Flying Leads, 16 AWG tinned wire, pre-stripped			
Weight:	10.3oz (290g)			
Dimensions:	5.5x3.2x2.2", (14x8.1x5.5cm)			
Warranty:	5 years			

	GVB-8-Pb-12V-WP	GVB-8-Pb-24V-WP	GVB-8-Pb-36V-WP	GVB-8-Pb-48V-WP			
Charge Profile:	Multi-Stage with Temperature Compensation						
Nominal Battery Voltage:	12V	24V	36V	48V			
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			
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			
Night Consumption:	7mA	6mA	6mA	5mA			

GVB-8-Li-14.2V-WP GVB-8-Li-28.4V-WP GVB-8-Li-41.7V-WP GVB-8-Li-54.2V-WP GVB-8-Li-56.8V-WP

Battery type:	4S LiFePO4	8S LiFePO4	10S Li-ion	13S Li-ion	16S LiFePO4			
Charge Profile:		CC/CV						
CV Voltage:	14.2V	28.4V	41.7V	54.2V	56.8V			
Battery Temperature Compensation:		Disabled						
Maximum Recommended Panel Vmp:	13V	26V	39V	43V	43V			
Maximum Recommended Panel Power:	105W	210W	325W	350W	350W			
Electrical Efficiency:	95% - 97% typical	96% - 98% typical	96% - 98% typical	96% - 99% typical	96% - 99% typica			
Night Consumption:	7mA	6mA	6mA	5mA	5mA			

^{*}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.

Certifications: (€ F© RÖHS COMPLIANT

^{*} Pariel 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.