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

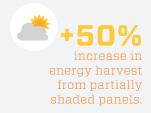
8A MPPT @ 12-48V

- 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.







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



Specifications:

Night Consumption:

GVB-8. All Models

	GVB-8, 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:	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:	6.5oz., 185g						
Dimensions:	5.5x2.5x1.2", 14x6.5x3.1cm						
Warranty:	5 years						
	GVB-8-Pb-12V	GVB-8-Pb-24V	GVB-8-Pb-36V	GVB-8-Pb-48V	GVB-8-Pb-CV		
Charge Profile:	Multi-Stage with Temperature Compensation						
Nominal Battery Voltage:	12V	24V	36V	48V			
Maximum Recommended Panel Vmp:	13V	26V	41V	43V	(See specs for closest -Pb		
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:	0.77						
Float Voltage:	13.8V	27.6V	41.4V	55.2V	equivalent.)		
Battery Temperature Compensation (referred to 25°C):	-28mV/°C	-56mV/°C	-84mV/°C	-112mV/°C			
Electrical Efficiency:	95% - 97% typical	96% - 98% typical	96% - 98% typical	96% - 99% typical			
,		g	g	g			

	GVB-8-Li-14.2V	GVB-8-Li-28.4V	GVB-8-Li-41.7V	GVB-8-Li-56.8V	GVB-8-Li-CV
Battery type:	4S LiFePO4	8S LiFePO4	10S Li-ion	16S LiFePO4	Lithium
Charge Profile:		CC/CV or Multi-Stage			
CV Voltage:	14.2V	28.4V	41.7V	56.8V	Custom
Battery Temperature Compensation:					
Maximum Recommended Panel Vmp:	13V	26V	39V	43V	(See specs for closest CC/CV voltage)
Maximum Recommended Panel Power:	105W	210W	325W	350	
Electrical Efficiency:	95% - 97% typical	96% - 98% typical	96% - 98% typical	96% - 99% typical	
Night Consumption:	7mA	6mA	6mA	5mA	

6mA

6mA

5mA

7mA

^{*}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.