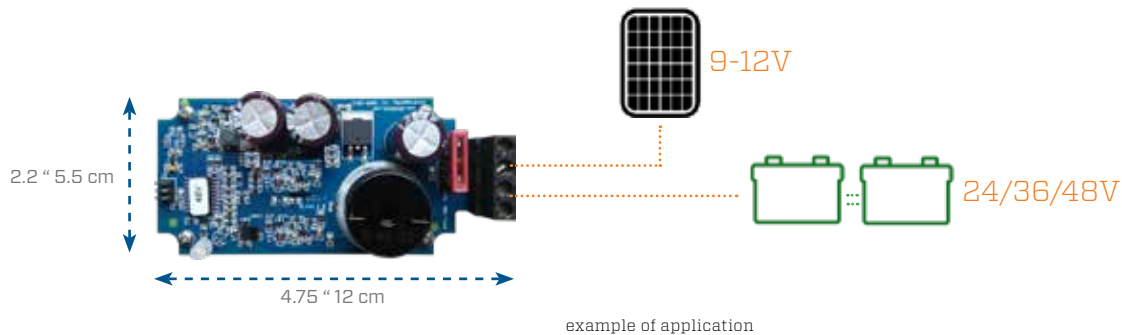


Reliability & efficiency down to a science.

EV'S | Military | Portable | Embedded | Off-Grid

A ready-to-go MPPT Boost solar charge controller for OEM applications. The **GVB-8-PCB** (SKU 930-0101-01) is the first **MPPT BOOST** controller available as an easy-to-install PCB. It is light, compact, and packs advanced MPPT tracking technology. Boost your solar panel voltage up to a higher voltage battery bank. This series, as example, can take a standard 9V-12V panel and boost the voltage to charge a 24V, 36V or 48V battery pack. Many combinations are possible, in fact, the GVB-8-PCB will boost almost any panel voltage (V_{mp}) that's below your battery voltage. This makes finding a good panel easy. Available for Lead-Acid battery at 12-24-36-48V, LiFePO₄ (4S, 8S or 16S), or custom Li-ion battery voltages. Packaged in bulk (multiple of 50 units) for OEM applications.



GVB-8-PCB

8A @ 12V/48V MPPT

- 99% peak efficiency
- Ultra-fast Boost MPPT technology
- Built-in fuse 10A
- Excellent low-light performance
- PCB board for easy installation
- Great for lithium batteries

Take advantage MPPT Boost 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.

Specifications:

GVB-8-PCB-Pb-12V

GVB-8-PCB-Pb-24V

GVB-8-PCB-Pb-36V

GVB-8-PCB-Pb-48V

GVB-8-PCB-Li-**, *V

Rated Panel (Input) Current:	8A*				
Minimum Panel Voltage for Charging:	5V				
Minimum Battery Voltage for Operation:	9.5V				
Maximum Panel Input:	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				
Connection:	4-position terminal block for 10-30AWG wire				
Weight:	3.8oz., 108g				
Dimensions:	4.75 x 2.2 x 1.06 ", 12 x 5.5 x 2.7 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.

Certifications:

