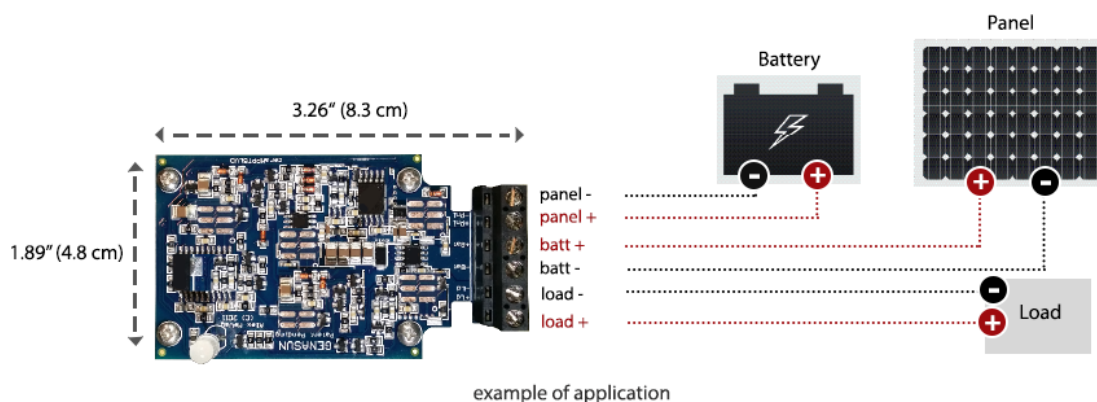


Reliability & efficiency down to a science.

Parkmeters | Military | Portable | Embedded | Off-Grid


A ready-to-go MPPT solar charge controller for OEM applications. The **GV-5-PCB** is the first MPPT controller available as an easy-to-install PCB. It is light, compact, and packs advanced MPPT tracking technology. Compatible for PV panels up to 65 W for charging 12 V battery (Pb or Lithium) up to 5 A with 99.85% peak efficiency. It will extract 10-30% more power from a panel than a PWM controller, giving you more bang for your buck. The GV-5-PCB can handle a 5 A DC Output with low voltage disconnection (LVD). Its ceramic capacitors will never wear out, and it ships with an industry-leading 10 year warranty. Available for LiFePO₄ (3S or 4S), LiCoO₂ (3S or 4S), or custom Li-ion battery voltages. Packaged in bulk (multiple of 50 units) for OEM applications.





GV-5-PCB 5 A @ 12 V MPPT 65 W

- 99.85% peak efficiency
- Electrolytic-free, ceramic capacitors
- Ultra-fast true MPP Tracking
- Excellent low-light performance
- PCB board for easy installation
- Great for lithium batteries

Take advantage 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.

Specifications:

	GV-5-Pb-12V-PCB	GV-5-Li-10.7V-PCB	GV-5-Li-12.5V-PCB	GV-5-Li-14.2V-PCB	GV-5-Li-16.7V-PCB	GV-5-Li-CV-PCB
SKU:	930-0106-01	930-0125-01	930-0100-01	930-0113-01	930-0121-01	930-0107-01
Battery Type:	12V Lead-Acid	3S LiFePO ₄	3S Li-ion	4S LiFePO ₄	4S Li-ion	Lithium
Maximum Recommended Panel Power:	65 W	50W	55W	65W	75W	See specs for closest -Li equivalent
Maximum Input Voltage:	27 V					
Recommended Max Panel Voc at STC:	22 V					
Minimum Battery Voltage for Normal Operation:	7.2 V					
Trickle Charge to Recover Dead (0 V) Battery:	Yes					
Rated Charging Current:	5 A					
Continuous Rated Load Current:	5 A					
Maximum Input Short Circuit Current ¹ :	8 A					
Maximum Input Current ² :	8 A					
Electrical Efficiency:	96% - 99.85% typical	94% - 99.85% typical				
Operating Consumption:	0.150 mA (150 uA)					
Night Consumption:	0.125 mA (125 uA)					
Charge Profile:	Multi-Stage with Temperature Compensation	CC-CV				CC-CV or Multi-Stage
Bulk Voltage	14.4 V	-				
Absorption Voltage:	14.2 V	-				
Absorption Time:	2 hours	-				
Float Voltage (Pb models) or CV Voltage (Li models):	13.8 V	10.7 V	12.5 V	14.2 V	16.7 V	See specs for closest -Li equivalent
Load (LVD) Disconnect/Reconnect Voltage:	11.4/12.5 V	8.2/9.0 V	9.3/10.5 V	11.0/12.0 V	12.4/14.0 V	
Battery Temperature Compensation:	-28 mV/°C	Disabled				
Operating Temperature:	-40°C – 85°C					
Maximum Full Power Ambient ³ :	45°C					
Tracking Efficiency:	99+% typical					
MPPT Tracking Speed:	15 Hz					
Environmental Protection:	IP00, Conformal Coating, Nickel-Plated Brass & Stainless Hardware					
Connection:	6-position terminal block for 12-30 AWG wire					
Weight:	0.8 oz (23 g)					
Dimensions:	3.3" x 1.9" x 0.9" (8.3 cm x 4.8 cm x 2.3 cm)					
Warranty:	10 years					
Certifications:	CE, FCC, RoHS					

(1) Panel Isc. The GV-5-PCB can be used with panels whose Isc exceeds this rated maximum.

(2) Maximum current that the controller could draw from an unlimited source. This specification is not intended for determining PV input.

(3) Max ambient temperature for full operating power. Test conditions: 16 V input, 13 V output, GV-5-PCB vertically (wall) mounted.