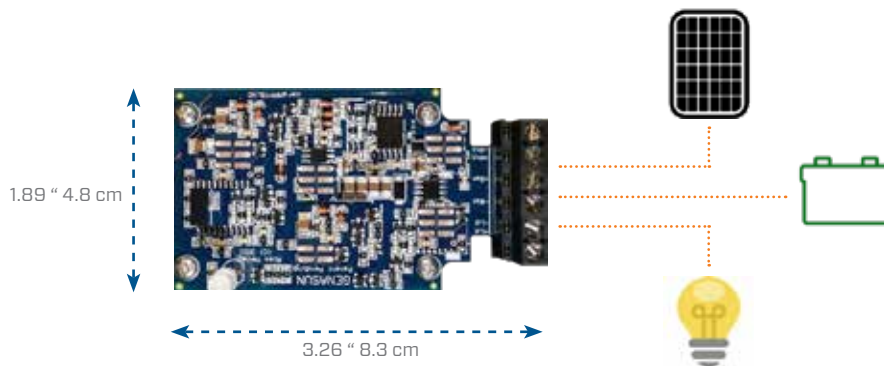


Reliability & efficiency down to a science.

Parkmeters | Military | Portable | Embedded | Off-Grid

A ready-to-go MPPT solar charge controller for OEM applications. The **GV-5-PCB** (SKU 930-0100-01) 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 65W for charging 12V battery (Pb or Lithium) up to 5A 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 5A 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.

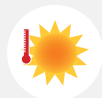


GV-5-PCB

5A @ 12V MPPT 65W

- 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-PCB-Pb-12V

GV-5-PCB-Li-**, *V

Maximum Recommended Panel Power:	65W	Li-10.7V	50W
		Li-10.7V-SP	20W
		Li-12.5V	55W
		Li-14.2V	65W
		Li-16.7V	75W
Rated Battery (Output) Current:	5A	5A (-SP model: 2A)	
Nominal Battery Voltage:	12V	N/A	
Max Input Voltage:	27V	27V	
Recommended Max Voc at STC:	22V	22V	
Minimum Battery Voltage for Normal Operation:	7.2V	7.2V	
Trickle Charge to Recover Dead (OV) Battery:	Yes	Yes	
Input Voltage Range:	0-27V	0-27V	
Maximum Input Short Circuit Current*:	5A	5A (-SP model: 2A)	
Continuous Rated Load Current:	5A	5A	
Maximum Input Current**:	9A	9A	
Charge Profile:	Multi-Stage with Temperature Compensation	CC-CV	
Absorption Voltage:	14.2V	-	
Absorption Time:	2 hours	-	
Float Voltage (Pb models) or CV Voltage (Li models):	13.8V	Li-10.7V (-SP)	10.7V
		Li-12.5V	12.5V
		Li-14.2V	14.2V
		Li-16.7V	16.7V
Load (LVD) Disconnect/Reconnect Voltage:	11.4/12.5 V	Li-10.7V (-SP)	8.2/9.0 V
		Li-12.5V	9.3/10.5 V
		Li-14.2V	11.0/12.0 V
		Li-16.7V	12.4/14.0 V
Battery Temperature Compensation:	-28mV/°C	-	
Operating Temperature:	-40°C - 85°C		
Maximum Full Power Ambient:	50°C		
Electrical Efficiency:	96% - 99.85% typical	94% - 99.85% typical	
Tracking Efficiency:	99+% typical		
MPPT Tracking Speed:	15Hz		
Operating Consumption:	0.150mA (150uA)		
Night Consumption:	0.125mA (125uA)		
Connection:	6-position terminal block for 12-30AWG wire		
Weight:	0.8 oz., 23 g		
Dimensions:	3.26 x 1.89 x 0.9 ", 8.3 x 4.8 x 2.3 cm		
Warranty:	10 years		

*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:

