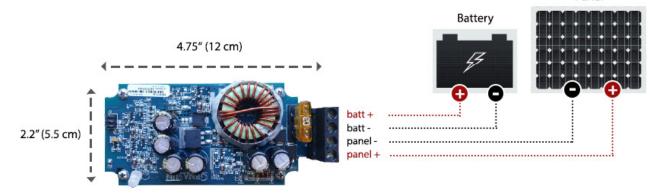


Reliability & efficiency down to a science.

Industrial | Military | Portable | Embedded | Off-Grid

A ready-to-go MPPT solar charge controller for OEM applications. The GV-10-PCB MPPT controller available as an easy-to-install PCB. The GV-10-PCB extracts more power from any given panel than a PWM controller. And though PWMs may offer a lower controller cost, Genasun MPPT controller delivers more power - reducing the cost per watt by 10-30% and giving you more bang for your buck. Available for Lead-Acid battery at 12 V, 4S LiFePO4, 3S or 4S Li-ion, or custom voltages. Packaged in bulk (multiple of 50 units) for OEM applications.



example of application

GV-10-PCB

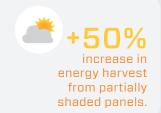
Panel

- 98% peak efficiency •
- Ultra-fast Boost MPPT technology
 - Built-in fuse •
 - 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.







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









Specifications:

MODEL (GV-10-**)	Pb-12V-PCB		Li-12.5V-PCB	Li-14.2V-PCB	Li-16.7V-PCB	Li-CV-PCB
Maximum Recommended Panel Power:	140 W		120 W	140 W	160 W	(See specs for closest CC/CV voltage.)
Rated Battery (Output) Current:	10.5 A					
Max Input Voltage:	34 V					
Recommended Max Voc at STC:	27 V					
Minimum Battery Voltage for Operation:	8.5 V					
Input Voltage Range:	0 - 34 V					
Maximum Input Short Circuit Current: ¹	10.5 A					
Maximum Input Current:2	19 A					
Charge Profile:	Multi-Stage with Temperature Compensation		CC/CV			CC/CV or Multi-Stage
Battery Type:	Lead-Acid FLOODED (jumper in place)	Lead-Acid SEALED (no jumper)	3S Li-ion	4S LiFePO₄	4S Li-ion	Lithium
Equalization Voltage:	15.0 V	-		_	-	
Equalization Time:	2 Hours	_	0	_	_	
Equalization Interval:	30 Days	-	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	_	-	
Bulk Voltage:	14.6 V	14.3 V	-			
Absorption Voltage:	14.4 V	14.1 V		-	_	
Absorption Time:	2.5 Hours –					
Float Voltage (Pb models) or CV Voltage (Li models):	13.5 V	13.7 V	12.5 V	14.2 V	16.7 V	Custom Voltage
Re-Absorb (Re-Bulk): ³	12.5 V	12.5 V	•	_	-	
Battery Temperature Compensation:	-28 mV/°C (referred to 25 °C) Disabled					
Operating Temperature:	-40 °C − 85 °C					
Maximum Full Power Ambient:	70 °C					
Electrical Efficiency:	96% - 98% typical					
Tracking Efficiency:	99+% typical					
MPPT Tracking Speed:	15 Hz					
Night Consumption:	0.9 mA (900 uA)					
Environmental Protection:	IP00, Nickel-Plated Brass & Stainless Hardware					
Connection:	4-position terminal block for 10-30 AWG wire					
Certifications:	cETLus, CE, FCC, RoHS					
Weight:	3.4 oz. (96 g)					
Dimensions:	4.75 x 2.2 x 1.0″ (12 x 5.5 x 2.5 cm)					
Warranty:	5 years					

⁽¹⁾ Panel Isc. Maximum input power and maximum input voltage requirements must also be respected.

⁽³⁾ If the battery voltage drops below this point, the controller will attempt to run an absorption cycle. Otherwise, it will charge to the float voltage.



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