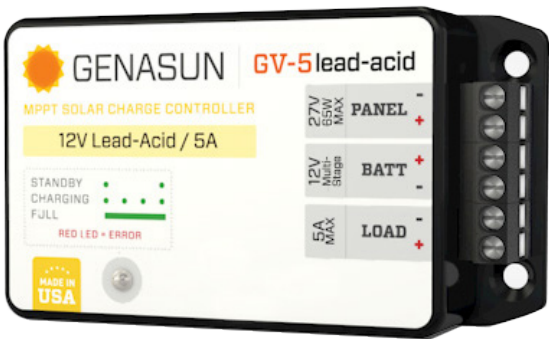


Reliability & efficiency down to a science.

Parkmeters | Military | Portable | Street Lighting | Off-Grid



Get your money's worth with Genasun. The Genasun GV-5 MPPT controller sets a new standard for reliability. This 65 W 5 A 4-stage 12 V battery charging MPPT solar charge controller with 99.85% peak efficiency 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. Oh, and its ceramic capacitors will never wear out, allowing us to offer an industry-leading 10 year warranty.

GV-5

5 A @ 12 V MPPT 65 W

- 99.85% peak efficiency
- Electrolytic-free, ceramic capacitors
- Ultra-fast true MPP Tracking
- Excellent low-light performance
- Compact 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	GV-5-Li-10.7V	GV-5-Li-12.5V	GV-5-Li-14.2V	GV-5-Li-16.7V	GV-5-Li-CV
Maximum Recommended Panel Power:	65 W	50W	55W	65W	75W	See specs for closest -Li equivalent
Genasun Overdrive: ¹			Yes			
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: ²			15 A			
Maximum Input Current: ³			15 A			
Charge Profile:	Multi-Stage with Temperature Compensation		CC-CV			CC-CV or Multi-Stage
Battery Type:	12V Lead-Acid	3S LiFePO ₄	3S Li-ion	4S LiFePO ₄	4S Li-ion	Lithium
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	Custom Voltage
Re-Absorb (Re-Bulk): ⁴	12.5 V			-		
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	Custom Voltage
Battery Temperature Compensation:	-28 mV/°C (referred to 25 °C)		Disabled			
Operating Temperature:			-40 °C – 85 °C			
Maximum Full Power Ambient: ⁵			45 °C			
Tracking Efficiency:			99+% typical			
MPPT Tracking Speed:			15 Hz			
Electrical Efficiency:	96% - 99.85% typical		94% - 99.85% typical			
Operating Consumption:			0.190 mA (190 uA)			
Night Consumption:			0.125 mA (125 uA)			
Environmental Protection:			IP40, Nickel-Plated Brass & Stainless Hardware			
Connection:			6-position terminal block for 12-30 AWG wire			
Weight:			2.8 oz (80 g)			
Dimensions:			3.3" x 1.9" x 0.9" (8.3 cm x 4.8 cm x 2.3 cm)			
Certifications:			UL/CSA (Safety and HazLoc C1D2), CE, FCC, RoHS			
Warranty:			10 years			

(1) Genasun Overdrive, see manual for more information.

(2) Panel Isc. Inputs exceeding this rating may cause damage to the GV-5 if the input or battery voltage changes abruptly. See manual for more information.

(3) Maximum steady-state current that the controller could draw from an unlimited source. This specification is intended for sizing input circuit protection. See manual for more information.

(4) 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.

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