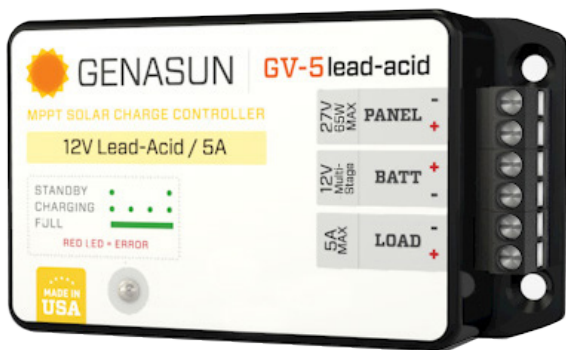




# Reliability & efficiency down to a science.

Marine | RV | Industrial | Military | 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 of Genasun's advanced 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-\*\*\*.V

Maximum Recommended Panel Power:	65 W	GV-5-Li-10.7V	50 W
		GV-5-Li-10.7V-SP	20 W
		GV-5-Li-12.5V	55 W
		GV5-Li-14.2V	65 W
		GV5-Li-16.7V	75 W
Rated Battery (Output) Current:	5 A	5A (-SP model: 2A)	
Nominal Battery Voltage:	12 V	N/A	
Maximum Input Voltage:	27 V	27 V	
Recommended Max Panel Voc at STC:	22 V	22 V	
Minimum Battery Voltage for Normal Operation:	7.2 V	7.2 V	
Trickle Charge to Recover Dead (0V) Battery:	Yes	Yes	
Maximum Input Short Circuit Current <sup>1</sup> :	5 A	5 A (-SP model: 2 A)	
Continuous Rated Load Current:	5 A	5 A	
Maximum Input Current <sup>2</sup> :	9 A	9 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	
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	GV-5-Li-10.7V (-SP)	10.7 V
		GV-5-Li-12.5V	12.5 V
		GV5-Li-14.2V	14.2 V
		GV5-Li-16.7V	16.7 V
Load (LVD) Disconnect/Reconnect Voltage:	11.4/12.5 V	GV-5-Li-10.7V (-SP)	8.2/9.0 V
		GV-5-Li-12.5V	9.3/10.5 V
		GV5-Li-14.2V	11.0/12.0 V
		GV5-Li-16.7V	12.4/14.0 V
Battery Temperature Compensation:	-28 mV/°C	Disabled	
Operating Temperature:	-40°C - 85°C		
Maximum Full Power Ambient <sup>1,2</sup> :	45°C		
Peak-Shaving/PV-Heavy <sup>1</sup>	Yes		
Tracking Efficiency:	99+% typical		
MPPT Tracking Speed:	15 Hz		
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:	4.3" x 2.2" x 1.14" (11 cm x 5.6 cm x 2.9 cm)		
Warranty:	10 years		
Certifications:	CE, FCC, RoHS		

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

(2) Maximum current that the controller could draw from an unlimited source.