

# 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 65W 5A 4-stage 12V 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**

**5A @ 12V MPPT 65W**

- 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.



[www.genasun.com](http://www.genasun.com) Sold through Blue Sky Energy  
(760) 597-1642 sales@blueskyenergyinc.com

# Specifications:

GV-5-Pb-12V

GV-5-Li-\*\*. \*V

Maximum Recommended Panel Power:	65W	GV-5-Li-10.7V	50W
		GV-5-Li-10.7V-SP	20W
		GV-5-Li-12.5V	55W
		GV5-Li-14.2V	65W
		GV5-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	GV-5-Li-10.7V (-SP)	10.7V
		GV-5-Li-12.5V	12.5V
		GV5-Li-14.2V	14.2V
		GV5-Li-16.7V	16.7V
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:	-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)		
Environmental Protection:	IP40, Conformal Coating, Nickel-Plated Brass & Stainless Hardware		
Connection:	6-position terminal block for 12-30AWG wire		
Weight:	2.8 oz., 80 g		
Dimensions:	4.3 x 2.2 x 0.9", 11 x 5.6 x 2.5 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:

