

## 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 •

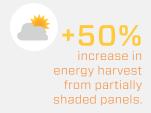
Compact for easy installation •

Great for lithium batteries •

Take advantage of Genasun's advanced MPPT technology and enjoy more reliable power from smaller panels.







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:		GV-5-Li-10.7V	50 W	
		GV-5-Li-10.7V-SP	20 W	
	65 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 (			
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	
	13.6 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 –	-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	IP40, Nickel-Plated Brass & Stainless Hardware		
Connection:	6-position terminal bloc	6-position terminal block for 12-30 AWG wire		
Weight:	2.8 oz. (i	2.8 oz. (80 g)		
Dimensions:	4.3 x 2.2 x 0.9" (11	4.3 x 2.2 x 0.9" (11 x 5.6 x 2.5 cm)		
Warranty:	10 yea	10 years		
Certifications:	CE, FCC,	RoHS		

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



<sup>(2)</sup> Maximum current that the controller could draw from an unlimited source.