

# Reliability & efficiency down to a science.

Marine | RV | Industrial | Military | Street Lighting | Off-Grid

You paid for 140 Watts. Get your money's worth with Genasun. With the Genasun GV-10 MPPT controller, continuous power is yours for the taking. The only 10.5A 140W MPPT solar charge controller on the market today, the GV-10 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.



## GV-10 | 10.5A @ 12V MPPT 140W

98% peak efficiency

Built-in fuse


Excellent low-light performance


Ultra-fast true MPP Tracking


Compact for easy installation

No fans. No relays

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](mailto:sales@blueskyenergyinc.com)

# Specifications:

## GV-10-Pb-12V

## GV-10-Li-\*\*.\*.V

Maximum Recommended Panel Power:	140W		GV-10-Li-12.5V	120W
			GV-10-Li-14.2V	140W
			GV-10-Li-16.7V	160W
Rated Battery (Output) Current:	10.5A		10.5A	
Nominal Battery Voltage:	12V		N/A	
Max Input Voltage:	34V		34V	
Recommended Max Voc at STC:	27V		27V	
Minimum Battery Voltage for Operation:	8.5V		8.5V	
Input Voltage Range:	0-34V		0-34V	
Maximum Input Short Circuit Current*:	10.5A		10.5A	
Maximum Input Current**:	19A		19A	
Charge Profile:	Multi-Stage with Temperature Compensation		CC-CV	
Charging Voltages:	FLOODED Setting	SEALED Setting		
Equalization Voltage:	15.0V	-	-	
Equalization Time:	2 Hours	-	-	
Equalization Interval:	30 Days	-	-	
Bulk Voltage:	14.6V	14.3V	-	
Absorption Voltage:	14.4V	14.1V	-	
Absorption Time:	2.5 Hours		-	
Float Voltage (Pb models) or CV Voltage (Li models):	13.5V	13.7V	GV-10-Li-12.5V	12.5V
			GV-10-Li-14.2V	14.2V
			GV-10-Li-16.7V	16.7V
Battery Temperature Compensation:	-28mV/°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:	15Hz			
Night Consumption:	0.9mA (900uA)			
Environmental Protection:	IP40, Nickel-Plated Brass & Stainless Hardware			
Connection:	4-position terminal block for 10-30AWG wire			
Certifications:	cETLus Safety, Recognized Component cETLus HazLoc (C1D2), CE, FCC, RoHS			
Weight:	6.5oz., 185g			
Dimensions:	5.5x2.5x1.2", 14x6.5x3.1cm			
Warranty:	5 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. This specification is not intended for determining PV input.