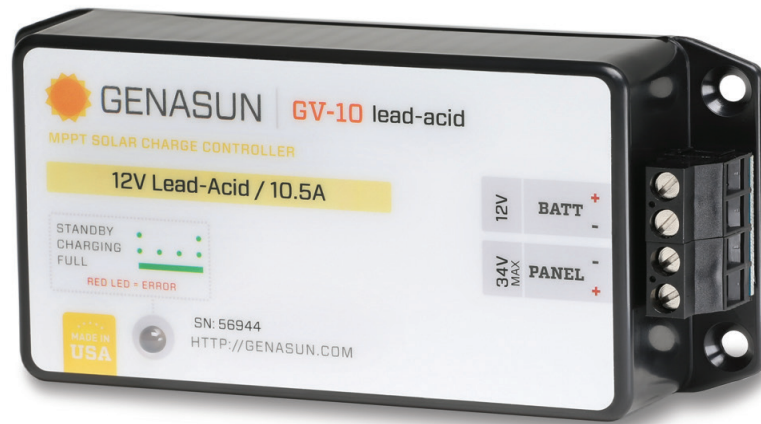# Reliability & efficiency down to a science.

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.

GENASUN

www.genasun.com **Sold through Blue Sky Energy**
(760) 597-1642   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.