

65W 5A SOLAR CHARGE CONTROLLER WITH MPPT

Genasun GV-5 65W 5A Solar Charge Controller with MPPT

High-Speed MPPT: Always on Target

Not all Maximum Power Point Tracking controllers were created equally. Most use a sweep and sleep method that scans the entire voltage range every 30-60 seconds. That's okay for a clear day, but traditional controllers are constantly off target during changing cloud conditions – exactly when power is scarce and needs the most. The Genasun 5A MPPT solar charge controller adapts to changing light conditions 15 times every second. They are always on target, capturing every bit of available sunshine. Simply put, other controllers can't keep up.

Mission-Critical Reliability

Genasun controllers are deployed to the most remote locations on earth. They endure years at sea, harsh Antarctic winters, freezing conditions in the upper atmosphere on solar powered airplanes, and in a few off-the-map locations. Made in the USA, each controller is put through complete electrical testing to ensure reliability. If you need mission-critical power, this is your controller.

Get The Ceramic Edge. Electrolytic-Free with 10-Year Warranty

Genasun's Ceramic controllers set a new benchmark for reliability. Traditional controllers have components filled with liquid electrolytes that boil off over time, causing system failure. Genasun Solid Ceramic controllers have no liquid, so they don't wear out in the heat. Backed by an industry-leading 10 year warranty, these controllers take reliability to a new level.

Computer controlled, 4-Stage battery charging

Precise computer controlled charging ensures the optimal charge cycle for your battery. This increases the battery life, and maximizes battery capacity.

Made in the USA

	GV-5-Pb-12V	GV-5-Li-**.V	
Maximum Recommended Panel Power: For higher power controllers, please visit the Blue Sky Energy Product Page .	65W	GV-5-Li-10.7V	50W
		GV-5-Li-10.7V-SP	20W
		GV-5-Li-12.5V	55W
		GV-5-Li-14.2V	65W
		GV-5-Li-16.7V	75W
Rated Battery (Output) Current:	5A	5A (-SP model: 2A)	
Nominal Battery Voltage:	12V	N/A	
Absolute Max Panel Voltage (Voc):	27V	27V	
Recommended Max Voc at STC:	22V	22V	
Minimum Battery Voltage for Normal Operation:	7.2V	7.2V	
Trickle Charge to Recover Dead (0V) Battery:	Yes	Yes	
Input Voltage Range:	0-27V	0-27V	
Recommended Maximum Input Short Circuit Current (for Solar Use):	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 (GV-5-Pb): CV Voltage (GV-5-Li-**.V):	13.8V	GV-5-Li-10.7V (-SP)	10.7V
		GV-5-Li-12.5V	12.5V
		GV-5-Li-14.2V	14.2V
		GV-5-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
		GV-5-Li-14.2V	11.0/12.0 V
		GV-5-Li-16.7V	12.4/14.0 V
Battery Temperature Compensation:	-28mV/°C	—	

GV-10 | 140W 10A SOLAR CHARGE CONTROLLER WITH MPPT

Genasun GV-10 20-140W 10A Solar Charge Controller with MPPT

A Perfect Match for your 140W Panel

The GV-10 was designed to maximize the usable energy from a 140W panel. With Continuous Maximum Power Point Tracking, and night consumption of only 0.9mA, the GV-10 delivers results. In fact, the GV-10 is so effective at increasing panel output, it lowers your system cost (\$/W) compared to a PWM controller and larger panel.

Mission-Critical Reliability

Genasun controllers are deployed to the most remote locations on earth. They endure years at sea, harsh Antarctic winters, freezing conditions in the upper atmosphere on solar powered airplanes, and in a few off-the-map locations. Made in the USA, each controller is put through complete electrical testing to ensure reliability. If you need mission-critical power, this is your controller.

High-Speed MPPT: Always on Target

Not all Maximum Power Point Tracking controllers were created equally. Most use a sweep and sleep method that scans the entire voltage range every 30-60 seconds. That's okay for a clear day, but traditional controllers are constantly off target during changing cloud conditions – exactly when power is scarce and needs the most. Genasun controllers adapt to changing light conditions 20 times every second. They are always on target, capturing every bit of available sunshine. Simply put, other controllers can't keep up.

Computer-controlled, 4-Stage battery charging

Precise computer controlled charging ensures the optimal charge cycle for your battery. This increases the battery life, and maximizes battery capacity.

	GVB-8-Pb-12V	GVB-8-Pb-24V	GVB-8-Pb-36V	GVB-8-Pb-48V
Rated Panel (Input) Current:	8A*			
Minimum Panel Voltage for Charging:	5V			
Minimum Battery Voltage for Operation:	9.5V			
Maximum recommended Panel Open-Circuit Voltage (Voc) at STC:	51V			
Absolute Maximum Panel Open-Circuit Voltage (Voc):	63V			
Charge Profile:	Multi-Stage with Temperature Compensation			
Nominal Battery Voltage:	12V	24V	36V	48V
Maximum Recommended Panel Vmp:	13V	26V	41V	43V
Maximum Recommended Panel Power (8A Panel w/~155mm cells):	105W	210W	325W	350W
For higher power controllers, please visit the Blue Sky Energy Product Page .				
Bulk Voltage:	14.4V	28.8V	43.2V	57.6V
Absorption Voltage:	14.2V	28.4V	42.6V	56.8V
Absorption Time:	2 Hours			
Float Voltage (Pb models) or CV Voltage (Li models):	13.8V	27.6V	41.4V	55.2V
Battery Temperature Compensation:	-28mV/°C	-56mV/°C	-84mV/°C	-112mV/°C
Electrical Efficiency:	95% - 97% typical	96% - 98% typical	96% - 98% typical	96% - 99% typical
Night Consumption:	7mA	6mA	6mA	5mA
Tracking Efficiency:	99+% typical			
MPPT Tracking Speed:	15Hz			
Marine Grade:	Yes			
Waterproof:	NO		NO (See Genasun Model GVB-WP)	
Connection:	4-position terminal block for 10-30AWG wire			
Weight:	6.5oz., 185g			
Dimensions:	5.5x2.5x1.2", 14x6.5x3.1cm			
Warranty:	5 years			

Computer-controlled, temperature-compensated 3-stage battery charging

Precise computer controlled charging ensures the optimal

charge cycle for your battery. This increases the battery life, and maximizes battery capacity.

105-350W SOLAR GOLF CART BOOST CHARGE CONTROLLER WITH MPPT

Running circles around the Competition

You have a limited amount of space on the roof of your golf cart. Advanced electronics in the GVB controller extract more usable power from your panel than any other controller. These solar charge controllers are fully waterproof, which makes them ideal for golf carts and other applications where the controller will be exposed to moisture.

Boosting Panel Voltage Saves Money

Most solar charge controllers move power from a higher voltage panel to a lower voltage battery bank. The GVB-series controllers, in contrast, pump electricity up hill. These golf cart solar charge controllers will take almost any solar panel and boost the voltage to charge a 36V or 48V battery pack. Because these controllers feature true MPPT, no configuration is necessary; the controller will automatically adapt to your panel. Larger panels are cheaper per Watt than smaller panels, so using one large panel and a boost controller results in a significantly lower system cost than smaller panels in series with a conventional charge controller, not to mention simpler wiring and installation.

Unmatched Reliability

Genasun controllers are deployed to the most remote locations on earth. They continue delivering power after years at sea,

through harsh Antarctic winters, in the upper atmosphere on solar powered airplanes, and in a few off-the-map locations. Each controller we ship has passed a thorough electrical test to ensure reliability. If you need mission-critical power, this is your controller.

High-Speed MPPT: Always on Target

Not all Maximum Power Point Tracking controllers were created equally. Most use a sweep and sleep method that scans the entire voltage range every 30-60 seconds. That's okay for a clear day, with a stationary panel. But moving vehicles, and changing cloud cover requires a faster, more advanced controller. Genasun controllers adapt to changing light conditions 15 times every second. They are always on target, capturing every bit of available sunshine. Simply put, other controllers can't keep up.

Computer Controlled, Temperature-Compensated 3-Stage Battery Charging

Precise computer controlled charging ensures the optimal charge cycle for your battery. This increases the battery life, and maximizes battery capacity.

Made in the USA

	GVB-8-Pb-36V-WP	GVB-8-Pb-48V-WP	GVB-8-Li-56.8V-WP
Rated Panel (Input) Current:	8A*		
Minimum Panel Voltage for Charging:	5V		
Minimum Battery Voltage for Operation:	9.5V		
Maximum recommended Panel Open-Circuit Voltage (Voc) at STC	51V		
Absolute Maximum Panel Open-Circuit Voltage (Voc):	63V		
Nominal Battery Voltage:	36V	48V	48V (16-cell LiFePO4)
Maximum Recommended Panel Maximum Power Voltage (Vmp) at STC:	41V	43V	
Maximum Recommended Panel Power (8A Panel w/~155mm cells):	325W	350W	
For higher power controllers, please visit the Blue Sky Energy Product Page .			
Bulk Voltage:	43.2V	57.6V	—
Absorption Voltage:	42.6V	56.8V	—
Absorption Time:	2 Hours		—
Float Voltage (Pb models) or CV Voltage (Li model):	41.4V	55.2V	56.8V
Battery Temperature Compensation:	-84mV/°C	-112mV/°C	—
Electrical Efficiency:	96% - 98% typical	96% - 99% typical	
Night Consumption:	6mA	5mA	
Tracking Efficiency:	99+% typical		
MPPT Tracking Speed:	15Hz		
Environmental:	Waterproof		
Connection:	Flying Leads, 16 AWG tinned wire, pre-stripped		
Weight:	10.3oz (290g)		
Dimensions:	5.5x3.2x2.2", (14x8.1x5.5cm)		
Warranty:	5 years		