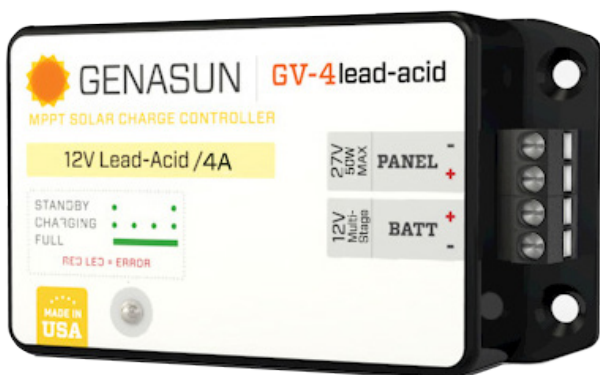




Reliability & efficiency down to a science.

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



Get your money's worth with Genasun. This 50 W 4 A 12 V MPPT controller is small, critically efficient, and cost-effective. The GV-4 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. Its extremely low self-consumption makes it perfect for waiting out a few bad weeks of clouds.

GV-4

4 A @ 12 V MPPT 50 W

- 99.85% peak efficiency
- No radio frequency noise
- Ultra-fast true MPP Tracking
- Excellent low-light performance
- Compact for easy installation

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.



Specifications:

GV-4-Pb-12V

| | |
|--|--|
| Maximum Recommended Panel Power: | 50 W |
| Rated Battery (Output) Current: | 4 A |
| Nominal Battery Voltage: | 12 V |
| Maximum Input Voltage: | 27 V |
| Recommended Max Panel Voc at STC: | 22 V |
| Minimum Battery Voltage for Operation: | 7.2 V |
| Input Voltage Range: | 0-27 V |
| Maximum Input Short Circuit Current ¹ : | 4 A |
| Maximum Input Current ² : | 7 A |
| Charge Profile: | Multi-Stage with Temperature Compensation |
| Bulk Voltage | 14.4 V |
| Absorption Voltage: | 14.2 V |
| Absorption Time: | 2 Hours |
| Float Voltage: | 13.8 V |
| Charging Output Voltage Range: | 7.2-18 V |
| Battery Temperature Compensation: | -28 mV/°C (referred to 25°C) |
| Operating Temperature: | -40°C – 85°C |
| Maximum Full Power Ambient ^{1,2} : | 45°C |
| Electrical Efficiency: | 96% - 99.85% typical |
| Tracking Efficiency: | 99% typical |
| MPPT Tracking Speed: | 15 Hz |
| Operating Consumption: | 0.125 mA (125 uA) |
| Night Consumption: | 0.09 mA (90 uA) |
| Environmental Protection: | IP40, Nickel-Plated Brass & Stainless Hardware |
| Connection: | 4-position terminal block for 12-30 AWG wire |
| Weight: | 2.8 oz. (80 g) |
| Dimensions: | 4.3" x 2.2" x 1.14" (11 cm x 5.6 cm x 2.9 cm) |
| Warranty: | 5 years |
| Certifications: | CE, FCC, RoHS |

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

(2) Maximum current that the controller could draw from an unlimited source.