

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 A @ 12 V MPPT 50 W

99.85% peak efficiency •

No radio frequency noise •

Ultra-fast true MPP Tracking •

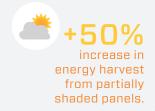
Excellent low-light performance •

Compact for easy installation •

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







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 0.9" (11 x 5.6 x 2.5 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.