# Reliability & efficiency down to a science.

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

Get your money's worth with Genasun. The Genasun GV-5 MPPT controller sets a new standard for reliability. This 65W 5A 4-stage 12V battery charging MPPT solar charge controller with 99.85% peak efficiency 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. Oh, and its ceramic capacitors will never wear out, allowing us to offer an industry-leading 10 year warranty.



### GV-5

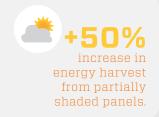
#### 5A @ 12V MPPT 65W

- 99.85% peak efficiency •
- Electrolytic-free, ceramic capacitors
  - Ultra-fast true MPP Tracking •
  - Excellent low-light performance
    - Compact for easy installation
      - Great for lithium batteries •

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







ypical power gains from Genasun MPPT controllers vs the best PWM controllers available.



## Specifications:

GV-5-Pb-12V GV-5-Li-\*\*.\*V

| Maximum Recommended Panel Power:                        |   | GV-5-Li-10.7V        | 50W         |
|---|---|----------------------|-------------|
|   |   | GV-5-Li-10.7V-SP     | 20W         |
|   | 65W   | GV-5-Li-12.5V        | 55W         |
|   |   | GV5-Li-14.2V         | 65W         |
|   |   | GV5-Li-16.7V         | 75W         |
| Rated Battery (Output) Current:                         | 5A  | 5A (-SP model: 2A)   |             |
| Nominal Battery Voltage:                                | 12V   | N/A                  |             |
| Max Input Voltage:                                      | 27V   | 27V                  |             |
| Recommended Max Voc at STC:                             | 22V   | 22V                  |             |
| Minimum Battery Voltage for Normal Operation:           | 7.2V  | 7.2V                 |             |
| Trickle Charge to Recover Dead (OV) Battery:            | Yes   | Yes                  |             |
| Input Voltage Range:                                    | 0-27V   | 0-27V                |             |
| Maximum Input Short Circuit Current*:                   | 5A  | 5A (-SP model: 2A)   |             |
| Continuous Rated Load Current:                          | 5A  | 5A                   |             |
| Maximum Input Current**:                                | 9A  | 9A                   |             |
| Charge Profile:   | Multi-Stage with Temperature<br>Compensation                      | CC-CV                |             |
| Absorption Voltage:                                     | 14.2V   | _                    |             |
| Absorption Time:  | 2 hours   | -                    |             |
| Float Voltage (Pb models) or<br>CV Voltage (Li models): | 13.8V   | GV-5-Li-10.7V (-SP)  | 10.7V       |
|   |   | GV-5-Li-12.5V        | 12.5V       |
|   |   | GV5-Li-14.2V         | 14.2V       |
|   |   | GV5-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  |
|   |   | GV5-Li-14.2V         | 11.0/12.0 V |
|   |   | GV5-Li-16.7V         | 12.4/14.0 V |
| Battery Temperature Compensation:                       | -28mV/°C  | -                    |             |
| Operating Temperature:                                  | -40°C − 85°C  |                      |             |
| Maximum Full Power Ambient:                             | 50°C  |                      |             |
| Electrical Efficiency:                                  | 96% - 99.85% typical  | 94% - 99.85% typical |             |
| Tracking Efficiency:                                    | 99+% typical  |                      |             |
| MPPT Tracking Speed:                                    | 15Hz  |                      |             |
| Operating Consumption:                                  | 0.150mA (150uA)   |                      |             |
| Night Consumption:                                      | 0.125mA (125uA)   |                      |             |
| Environmental Protection:                               | IP40, Conformal Coating, Nickel-Plated Brass & Stainless Hardware |                      |             |
| Connection:   | 6-position terminal block for 12-30AWG 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:   | 10 years  |                      |             |

<sup>\*</sup>Panel Isc. Maximum input power and maximum input voltage requirements must also be respected.

<sup>\*\*</sup>Maximum current that the controller could draw from an unlimited source.

