

SeaStar series

Solar Controller



SeaStar series Moisture proof solar controller that adopts the most advanced digital technique and operates fully automatically. The Pulse Width Modulation (PWM) battery charging can greatly increase the lifetime of battery.

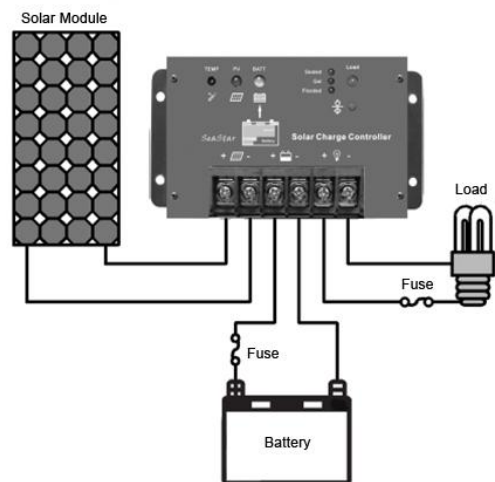
Application:

Moisture proof, ideal for off-grid solar system in humid area.

- ★ Solar marine
- ★ Solar monitoring equipment on island
- ★ Other off-grid solar systems which need moisture-proof design

Features:

- ◆ Aluminum case
- ◆ 12/24V auto work
- ◆ Excellent self-protection function
- ◆ High efficient Series PWM charging
- ◆ Moisture proof, circuit board encapsulation.
- ◆ Gel, Sealed and Flooded battery type option.
- ◆ Use MOSFET as electronic switch
- ◆ Temperature compensation
- ◆ Electronic protection: over charging, over discharging, overload, short circuit , and overheating
- ◆ Reverse protection: any combination of solar module and battery



SeaStar Series Solar Controller

| Electrical parameters | GI-SS1024 | GI-SS1524 | GI-SS2024 |
|--------------------------------|----------------------|-----------|-----------|
| Nominal System Voltage | 12 / 24VDC auto work | | |
| Rated Battery Current | 10A | 15A | 20A |
| Max. Battery Voltage | 32V | | |
| Charge Circuit Voltage Drop | ≤0.26V | | |
| Discharge Circuit Voltage Drop | ≤0.15V | | |
| Self-consumption | ≤6mA | | |

| Battery Voltage Parameters (temperature at 25°C) | | | |
|--|--------------|--------------|--------------|
| Battery charging setting | Gel | Sealed | Flooded |
| Equalize Charging Voltage | — | 14.6V;x2/24V | 14.8V;x2/24V |
| Boost Charging Voltage | 14.2V;x2/24V | 14.4V;x2/24V | 14.6V;x2/24V |
| Float Charging Voltage | 13.8V;x2/24V | 13.8V;x2/24V | 13.8V;x2/24V |
| Low Voltage Reconnect Voltage | 12.6V;x2/24V | 12.6V;x2/24V | 12.6V;x2/24V |
| Low Voltage Disconnect Voltage | 11.1V;x2/24V | 11.1V;x2/24V | 11.1V;x2/24V |
| Equalize Duration | — | 2 hours | 2 hours |
| Boost Duration | 2 hours | 2 hours | 2 hours |

| Environmental parameters | | Mechanical Parameters GI-SS1024 GI-SS1524/SS2024 | | |
|--------------------------|----------------|--|------------------|-------------------|
| Working temperature | -35°C to +55°C | Overall dimension | 132x70x30mm | 137x86x48mm |
| Storage temperature | -35°C to +80°C | Mounting dimension | 122x40mm | 127x50mm |
| Humidity | 10%-90% NC | Terminal | 6mm ² | 10mm ² |
| | | Net weight | 0.25kg | 0.45kg |