

Overview

The GoMate is a negative-ground, flush mount solar charge controller, designed for an aesthetically clean and integrated look on RV and Vessel, also included surface mount cover to suit personal preference. The GoMate adopts highly efficient PWM charging mode, also comes equipped with special LCD display to show the real-time operating status of the system. This charge controller is fully controlled automatically, which provide simple usage pattern to users.



Features

- Flush mounted and embedded installation design
- High quality and low failure rate components (ST/IR) to ensure the product lifetime
- 3-Stage intelligent PWM charging: Bulk, Boost/Equalize and Float
- Battery type: Sealed, Gel, Flooded, and User
- Real-time energy statistics feature
- Battery temperature compensation feature
- Digital LCD monitor for informative display of operational parameters and fault messages
- Voltage drop and temperature compensation sampling interface design
- RS485 communication port with Modbus protocol, and short circuit protection for 5V/200mA power supply
- Multiple communication peripherals
- Rated charging current at working temperature without de-rating
- Extensive electronic protections
- Monitor and set the parameters via PC software or APP

Model	GM3024N
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Electrical Parameters

Nominal System Voltage	12/24VDC or Auto
Battery Input Voltage Range	8V ~ 32V
Rated Charge Current	30A
Max. PV Short Circuit Current	30A
Max. PV Open Circuit Voltage	50V
Battery Type	Sealed(default)/Gel/Flooded/User★
Self-consumption	≤4.2mA/12V; ≤2.6mA/24V
Temperature Compensation Coefficient	-3mV/ °C /2V(Default)
Charge Circuit Voltage Drop	0.21V

Environmental Parameters

Storage Temperature Range	-30 °C ~ +80 °C
Working Environment Temperature	-20 °C ~ +55 °C (100% input and output)
Relative Humidity	≤95%, N.C.
Enclosure	IP30
Grounding	Common negative
Altitude	5000m
Pollution Degree	PD2

Mechanical Parameters

Dimension (L×W×H)	178.5×105.5×48.3mm
Mounting Dimension	166.5×93.5mm
Mounting Hole Size	Φ5mm
Terminal	16mm ² /6AWG
Recommended Cable	10mm ² /8AWG
Net Weight	0.31kg

★The battery type of User can be set via the PC software, APP software and MT50.