

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
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.