



## Residential Commercial And Industrial Solar System Charge Controller

### Basic Information

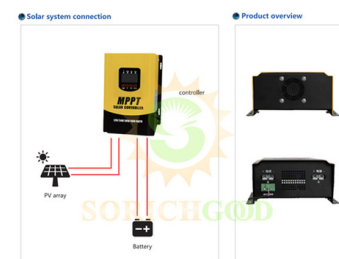
- Place of Origin: China
- Brand Name: GFS
- Model Number: GFS SCM
- Minimum Order Quantity: 10 units
- Price: consult prices online
- Packaging Details: consult online
- Payment Terms: T/T



GFS-SCM I SERIES MPPT solar controller

### Product Specification

- Rated Charge Current: 40A To 100A
- MPPT Efficiency:  $\geq 98\%$
- PV Open Circuit Voltage: Up To 850V DC
- Maximum PV Power: 5200W To 33280W
- Operating Temperature:  $-25^{\circ}\text{C}$  To  $55^{\circ}\text{C}$
- Protection Grade: IP20 (Indoor)
- Highlight: Commercial solar system charge controller,  
Industrial solar system charge controller,  
Residential wifi mppt charge controller



GFS-SCM I SERIES MPPT solar controller-1

## Product Description

### Optimal Energy Harvest Solar Charge Controller for Residential Commercial and Industrial

#### Product Description

This high-efficiency solar charge controller is designed for a wide range of battery voltages, including 12V, 24V, 48V, and up to 384V with auto-sensing functionality. Featuring MPPT efficiency of over 98%, it ensures optimal energy harvest from solar arrays even in low-light conditions. The controller supports three-stage charging (CC - constant current, CV - constant voltage, CF - float charge), which enhances battery life and performance. It is equipped with intelligent air cooling and offers comprehensive protection including reverse polarity, overcurrent, and over-temperature safeguards. The controller is ideal for managing lithium, gel, and sealed lead-acid batteries.

|   |   |            |             |
|---|---|------------|-------------|
| Matching Battery Pack Voltage DC96V/DC120V DC192V/DC220V/DC240V DC384V                            |   |            |             |
| Rated Charge Current 100A 100A 60A 80A  |   |            |             |
| Controller type   | MPPT  |            |             |
| MPPT efficiency 398%  |   |            |             |
| PV Open Circuit Voltage   | Max DC430V  | Max DC660V | DC850V      |
| PVMax Power 10400W/13000W 20800W/23400W/26000W 26000W 33280W                                      |   |            |             |
| Charging mode   | Three-stage charging:CC(constant current)-CV (constant voltage)-CF (float charge)   |            |             |
| Operating Temperature -25-55°C  |   |            |             |
| Relative Humidity   | <90%no condensation   |            |             |
| Altitude <3000m(If thealtitude exceeds 3000 meters,the rated current needs to be reduced for use) |   |            |             |
| Noise(1m)   | <40dB   |            |             |
| Protection Grade Ip20(Indoor)   |   |            |             |
| Cooling Method  | Intelligent air cooling   |            |             |
| Display LCD   |   |            |             |
| Function  | Automatically stop charging,automatially resume charging,Photovoltaic reverse polarity protection over temperature protection and over current protection |            |             |
| Communication Interface RS485/Support WIFI module expansion to realize APP cloud monitoring       |   |            |             |
| Reference Size(mm)  | 371*500*187   |            | 391*500*227 |
| Weight(KG) 17 21  |   |            |             |
| Package size(mm)  | 590*420*270   |            | 590*420*270 |
| Note:can be customized according to customerrequirements  |   |            |             |

|  |  |             |
|--|--|-------------|
| Matching Battery Pack Voltage 12V/24V/48V(Auto sensing)  |  |             |
| Applicable battery type (factory defaultgel battery) Lithium battery/gel battery /sealed lead-acid battery,other battery types can be customized |  |             |
| Rated Charge Current 40A 60A 100A  |  |             |
| Controller type  | MPPT   |             |
| MPPT efficiency ≥98%   |  |             |
| PV Open Circuit Voltage  | Max DC220V   |             |
| PV Max Power 520W/1040W/2080W 780W/1560W/3120W 1300W/2600W/5200W   |  |             |
| Charging mode  | Three-stage charging:CC(constant current)-CV(constant voltage)-CF (float charge)   |             |
| Operating Temperature -25-55℃  |  |             |
| Relative Humidity  | <90%no condensation  |             |
| Altitude <3000m(If the altitude exceeds 3000 meters,the rated current needs to be reduced for use)   |  |             |
| Noise(1m)  | <40dB  |             |
| Protection Grade Ip20(Indoor)  |  |             |
| Cooling Method   | Intelligent air cooling  |             |
| Display LCD  |  |             |
| Function   | Automatically stop charging,automatically resume charging,Photovoltaic reverse polarity protection, over temperature protection and over current protection. |             |
| Communication Interface RS485/Support WIFI module expansion to realize APP cloud monitoring  |  |             |
| Reference Size(mm)   | 218*265*100  | 250*300*120 |
| Weight(KG) 3.5 3.5   |  |             |
| Package size(mm)   | 230*295*125  | 270*320*135 |

#### Application

This solar charge controller is suitable for residential, commercial, and industrial solar energy storage systems. It can be deployed in off-grid and hybrid solar systems to efficiently manage the charging and discharging processes of energy storage units, ensuring longevity and safety. The unit is especially applicable for regions with variable sunlight exposure, given its wide MPPT range and intelligent monitoring capabilities. The inclusion of communication interfaces like RS485 and Wi-Fi makes it perfect for remote monitoring and integration into advanced solar energy management systems.

### Shipping Methods

Supports global air and sea shipping.



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