

## SOLAR CONTROLLER **GLC12(24)40LN**

### ◆ DESCRIPTION:

A solar controller is a small box consisting of solid state circuitry that is placed between a solar panel and a battery. Its function is to regulate the amount of charge coming from the panel that flows into the deep cycle battery bank in order to avoid the batteries being overcharged. A controller can also provide a direct connection to appliances, while continuing to recharge the battery.

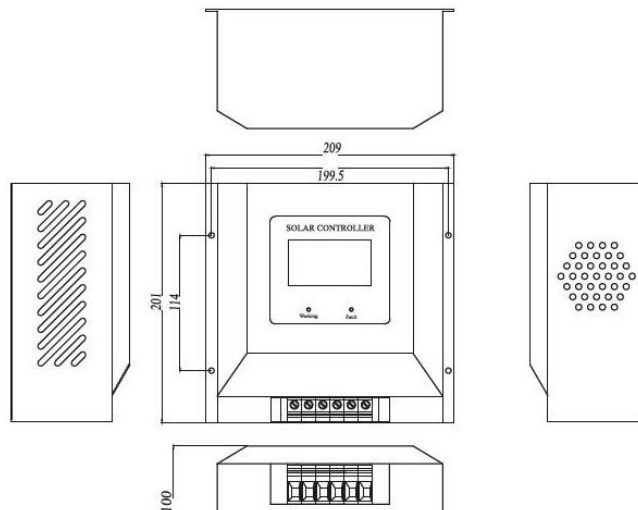


### ◆ FEATURES:



- **PWM Charging:** high charge efficiency and greatly extends the battery life.
- **MOSFET as Electronic Switch:** makes the controller a longer life.
- **Protection Functions:** makes the system be more secure and reliable, includes overcharge protection, deep discharge protection, reverse polarity protection of module/battery/load, short circuit protection of module/load, open circuit protection without battery, over-temperature protection, battery overvoltage shutdown.
- **LCD Display:** real-time shows the system status of charging, discharging and fault.
- **Sufficient Design Margin:** maximum capacity exceeds 20% as the rated current/power, which makes the system more secure.
- **Intelligent Cooling Fans:** it is controlled by the real-time heat sink's temperature, which makes the fan a longer life and saving energy.
- **Metal Case:** after spray treatment, the controller is more beautiful and durable.

### ◆ APPEARANCE:



◆ TECHNICAL PARAMETERS:

| Model                 |                              | GLC12(24)40LN         |
|-----------------------|------------------------------|-----------------------|
| System Specifications | Rated Voltage                | 12V/24V               |
|                       | Rated Current                | 40A                   |
|                       | Float Voltage                | 13.8V/27.6V           |
|                       | Idle Draw                    | ≤13mA                 |
| Input                 | Max Current On Charging      | 40A                   |
|                       | Max Open Voltage             | 30V/50V               |
| Output                | Max Load Current             | /                     |
| Protection Function   | Over charge                  | 14.6V±0.2V/29.2V±0.2V |
|                       | Over discharge Protection(V) | 10.8V±0.2V/21.6V±0.2V |
|                       | Over discharge Resumption(V) | 12.4V±0.2V/24.8V±0.2V |
|                       | Over-voltage Protection(V)   | 17V/34V               |
|                       | Over-voltage                 | 15V/30V               |
|                       | Reverse Polarity             | Yes                   |
|                       | Short Circuit                | Yes                   |
| Other Data            | Working Temperature          | -20~70°C              |
|                       | Storage Temperature          | -35~80°C              |
|                       | Temperature Compensation     | -4mV/2V/°C            |
|                       | Display                      | LCD                   |
|                       | Operating Altitude(m)        | ≤5000m                |
|                       | Product Size                 | 209mm×201mm×100mm     |
|                       | Packing Size                 | 213mm×205mm×103mm     |
|                       | Product Weight               | 2000g                 |
| Packing Weight        | 2150g                        |                       |

◆ INSTALLATION DIAGRAM:

