



HF series PWM solar charge controller



HF110&HF120 (10-20A)

HF series solar charge controller is a newly designed controller. It offers convenient display of LED and LCD, optimized structure design, advanced digital technique and extremely attractive price.

The multiple load work modes enable it can be widely used on solar home system, traffic signal, solar street light, solar garden lamp, etc.

Features:

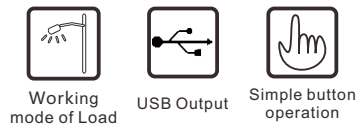
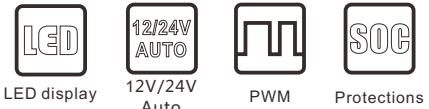
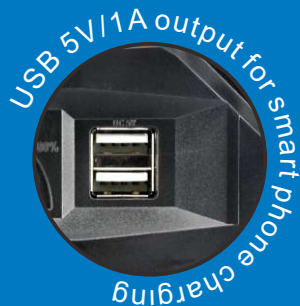
- PWM charging
- Use MOSFET as electronic switch
- Intuitive LED indicators showing battery voltage and charging status
- Manual control the output of the load
- Industrial grade design
- USB output 5VDC

Electronic protections:

- Battery over charge protection
- Battery over discharge protection
- Over load protection
- Reverse current protection at night
- Reverse connection protection of battery
- Overheat protection and short circuit protection of USB output

Display:

- Multi-functional LED indicators
- 4 LEDs show system battery capacity, charging and discharging status



Model: HF110



Rated Voltage: 12V/24V Auto identified
Rated Current: 5A, 10A
USB Port: 5V, 1A × 2

Packing info: 50pcs/carton
Carton size: 415mm×305mm×230mm
Volume: 0.029m³

Model: HF120



Rated Voltage: 12V/24V Auto identified
Rated Current: 20A, 30A
USB Port: 5V, 1A × 2

Packing info: 40pcs/carton
Carton size: 465mm×320mm×210mm
Volume: 0.031m³

Technical Data

| Model | | HF110 | HF120 |
|-------------|---------------------------|-------------------------------------|-------------------|
| Solar Input | Input voltage | ≤50V | |
| | Rated input current | 10A | 20A |
| | Charge loop voltage drop | ≤0.22V | |
| Battery | System voltage | 12V/24V Auto | |
| | No load loss | ≤12.5mA(12V), ≤14.5mA(24V) | |
| | USB output | 5V/1A | |
| | Charging mode | PWM | |
| | Float charge voltage | 13.8V/27.6V | |
| | Absorption charge voltage | 14.4V/28.8V(last time:2 hours) | |
| Load | Rated load current | 10A | 20A |
| | Discharge loop drop | ≤0.12V | |
| | Low voltage disconnect | 10.8V/21.6V | |
| | Low voltage reconnect | 12.6V/25.2V | |
| | Over loading protection | >1.2 × rated current | |
| Related | Max wire size | 6mm ² ~16mm ² | |
| | Working temperature | -10°C~50°C | |
| | Working humidity | 10%~90%,no condensation | |
| | Dimension(L×W×H) | 130mm×75mm×38mm | 140mm×85mm×42.5mm |
| | Net weight | 172g | 227g |

