Introduction:

This is a Maximum Power Point Tracking(MPPT) function with high efficiency MPPT charge controller. It has many advantages such as self cooling, system voltage automatic recognition, wide rang of PV input, bcharge for all kinds of batteries, intelligent discharge control, RS232 / LAN communication function etc. It is the most high-end product in solar market.



Feature:

- 1.It has an efficient MPPT algorithm, MPPT efficiency ≥99.5% and converter efficiency up to 98%.
- 2.Charge mode: three stages (constant current, constant voltage, floating charge), it prolongs service life of the batteries.
- 3. Four types of load mode selection: ON/OFF, PV voltage control, Dual Time control, PV+Time control.
- 4.Battery system voltage automatic recognition.
- 5. Three kinds of commonly used lead-acid battery (Seal\Gel\Flooded) parameter settings fcan be selected by the user, and the user can also customize the parameters for other battery charging.
- 6.It has a current limiting charging function. When the power of PV is too large, the controller automatically keeps the charging power, and the charging current will not exceed the rated value.
- 7. Support multi machine parallel to realize system power upgrade.
- 8. High definition LCD display function to check the device running data and working status, also can support modify the controller display parameter.
- 9.RS485 communication, we can offer communication protocol to convenient user's integrated management and secondary development.
- 10. Support PC software monitoring and WiFi module to realize APP cloud monitoring.
- 11.CE, RoHS, FCC certifications approved, we can assist clients to pass various certifications.
- 12.3 years warranty, and 3~10 years extended warranty service also can be provided.

Parameter □

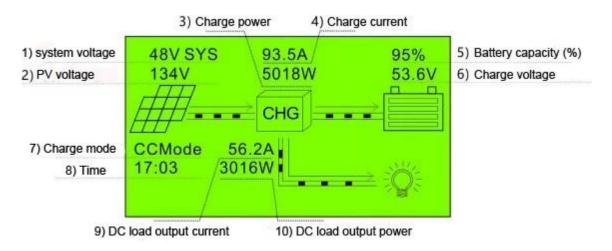
| MASTER series | | 48BL-80A | 48BH-80A | |
|---------------------|-------------------------|-------------------------------------|----------|--|
| Product category | Controller Properties | MPPT (maximum power point tracking) | | |
| | MPPT efficiency ≥99.5% | | | |
| | Standby power 0.5W~1.2W | | | |
| | System voltage | Automatic recognition | 48V | |
| | Heat-dissipating method | Air cooling | | |

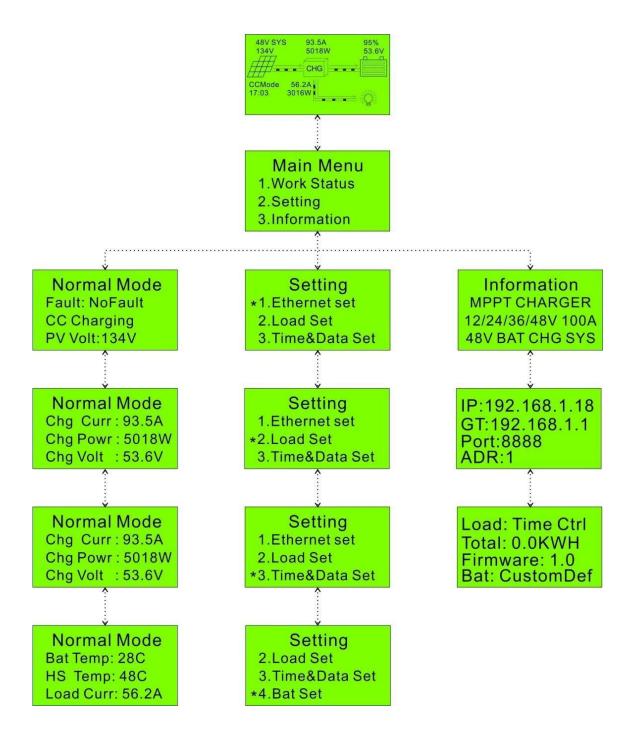
| Input Characteristics | Max.PV input voltage(VOC) | | DC150V | DC300V |
|---------------------------|---|------------|---|--|
| | Start the charge voltage | | Battery voltage + 3V | Battery voltage + 10V |
| | point | | Battery Voltage + 3V | battery voltage + 10v |
| | Low input voltage protection point | | Battery voltage + 2V | Battery voltage + 5V |
| | Over voltage protection point | | DC150V | DC300V |
| | | 12V system | 1040W | П |
| | D | 24V system | 2080W | |
| | Rated PV | 36V system | 3120W | |
| | power | 48V system | 4160W | 4160W |
| | | 96V system | | |
| Charge Characteristics | Selectable Battery Types(Default Gel battery) | | Sealed lead acid, Gel battery, Flooded (Other types of the batteries also can be defined) | |
| | Charge rated current | | 80A | 80A |
| | Charging Method | | 3-Stage: constant current(fast charging)-constant | |
| | Load voltage | | The same as the battery vo | , |
| LOAD | Load rated current | | 80A | 80A |
| Characteristics | Load control mode | | On\Off mode, PV voltage control mode, Dual-time control mode, PV + Time control mode | |
| Display & | Displ | ay mode | High-definition LCD segment code backlight display | |
| Communication | Communication mode | | 8-pin RJ45 port/RS485/support PC software monitoring/support WiFi module to realize APP cloud monitoring | |
| Other Parameters | Protect function | | Input-output over \ under voltage protection,Prevention of connection reverse protection,battery shedding protection etc. | |
| | Operation Temperature | | -20℃~+50℃ | |
| | Storage Temperature | | -40°C~+75°C | |
| | IP(Ingress protection) | | IP43 | |
| | Max. connection size | | 50mm2 | |
| | Net Weight (kg) | | 7.1 | |
| | Gross Weight (kg) | | 8.8 | |
| | | Size[]mm[] | 420*280*95 | |
| | Packing | g Size(mm) | 510*368*210 | |

Product Parts:

| NO. | Quantity | Description |
|-----|----------|---|
| 1 | 1PC | MPPT Solar controller∏Blue,Green or |
| | | White <u></u> |
| 2 | | hangers(To install the controller on the wall) |
| 3 | 8 set | Screw(To keep the hangers into the controller) |
| 4 | 1 pc | RJ45 turn to RS232 communication cable |
| 5 | 1 pc | Temperature sensing wire |
| 6 | 1 pc | CD |
| 7 | 1 pc | User manual |

The Main Information of MPPT





Setting page[]

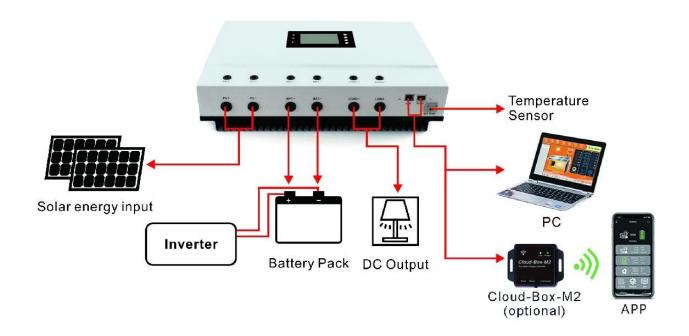
Note: All above information is asample which is the working state of MASTER in some time . In differentworking stage the parameters will change, like working mode , charge current, charge mode , charge power and so on ; In the fault mode it will show faultmode ;

Upper Computer Software and Test Software



The interface of upper computer software working state

Systeemaansluitschema[]



Parallel verbindingsschema

