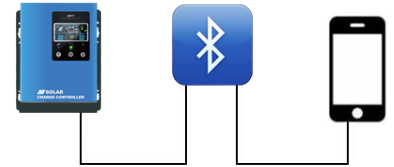


Key Features

- ◆ MPPT solar charge controller 12/24/36/48VDC 30-100A
- ◆ Max PV input 150V MPPT efficiency >99%
- ◆ Color LCD display for PV Bat Load parameter setup and working status
- ◆ Multi-stages charging mode, Bluk, Absorption, Float, Equalization, CV
- ◆ Selectable Battery, Sealed, Gel, Flooded, Lithium, User defined battery
- ◆ With Temperature Compensation and current limiting charging
- ◆ With Lithium battery activation Function
- ◆ RS485 Communication Port RJ45, WIFI and bluetooth as option
- ◆ WiFi or bluetooth as option



Bluetooth Communication Option (Advice)

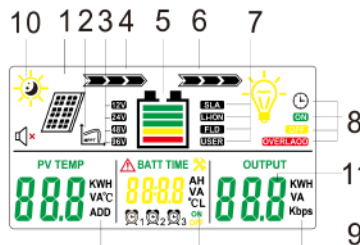
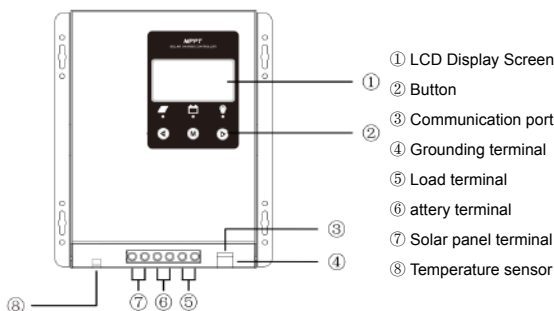


WiFi

WiFi Communication Option

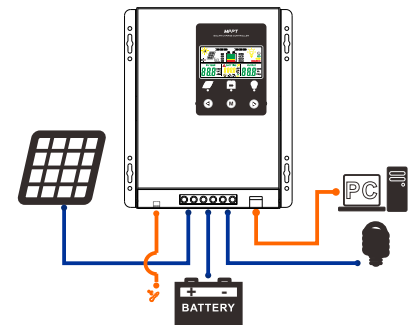
Technical Specifications

| Model | MPPT4830-K | MPPT4840-K | MPPT4850-K | MPPT4860-K | MPPT4880-K | MPPT48100-K |
|-----------------------------|--|------------|------------|------------|-------------|-------------|
| System voltage | 12V / 24 / 36 / 48V Auto | | | | | |
| Max charging current | 30A | 40A | 50A | 60A | 80A | 100A |
| Max PV voltage | 150V | | | | | |
| Min PV voltage | 20V/40V/60V/80V | | | | | |
| Battery type | GEL, SLD, FLD and USR(default), Lithium batteries customization 3 series 3.7V, 4 series 3.7V, 4 series 3.2V, 5 series 3.2V | | | | | |
| Equalize charge | 14.6V/29.2V/43.8V/58.4V | | | | | |
| Absorption charge | 14.4V/28.8V/43.2V/57.6V | | | | | |
| Float charge | 13.8V/27.6V/41.4V/55.2V | | | | | |
| Low voltage disconnection | 10.8V/21.6V/32.4V/43.2V | | | | | |
| Low voltage reconnection | 12.6V/25.2V/37.8V/50.4V | | | | | |
| Lithium battery activation | YES . | | | | | |
| Charge method | Multi-stage(MPPT,Bluk, Absorption, Float, Equalization, CV) | | | | | |
| Maximum charging efficiency | 97% | | | | | |
| MPPT highest accuracy | 99% | | | | | |
| No load consumption | ≤35mA(48V) | | | | | |
| Rated load current | 30A | 40A | 50A | 60A | 80A | 100A |
| Load DC voltage | Same as battery voltage. | | | | | |
| Load control mode | Normal, light control, light and timing control, timing control, reverse light control | | | | | |
| light control voltage | 5V / 10V / 15V / 20V | | | | | |
| Low voltage protection | 10.5V(default), 11V(restored), settable | | | | | |
| Protection | BAT Reverse Connection, Low Voltage, PV Reverse Connection, CONTROLLER Reverse Current, Over Temp. , I/P Over voltage, I/P overload | | | | | |
| Setting parameter | by controller or by PC software | | | | | |
| LED | PV , Bat , Load status | | | | | |
| LCD Display | Working status, System VDC, PV Vdc Amp Wh; Bat Vdc, Amp, Ah, %, type; Cha/Discha Vdc Amp WH , Load ON OFF overload;; Bat PV Load Parameters setup, Time set, Communication Fault Bts set, Error Code | | | | | |
| Human interface | Color LCD with backlight, 3 buttons | | | | | |
| Cooling mode | AL alloy heat sink and cooling fan | | | | | |
| Wiring | High current copper terminal ≤25mm ² (3AWG) | | | | | |
| Working temperature | -20 ~ +55 °C | | | | | |
| Storage temperature | -30 ~ +80 °C | | | | | |
| Temperature probe | 10K, Line length 3 meters | | | | | |
| Humidity | 10 ~ 90%, nocondensation | | | | | |
| Communication mode | RS485, RJ45 port, WIFI and bluetooth as option | | | | | |
| Product size mm | 222*200*85 | | 268*220*95 | | 340*240*108 | |
| Net Weight KG | 2.5 | | 3.5 | | 4.7 | |



Display

- Solar panel
- Working status
- System voltage
- Charge display
- Battery capacity
- Discharge display
- Battery type
- Load working mode&status
- Parameters unit
- Day or night
- Parameters display



Connection diagram

UPS, Power inverter, Battery, Battery charger, solar power wind generator, Solar street lamp kit, AC voltage regulat