


MPPT Solar Charge Controller
PC1600A Series (20/30/40A)





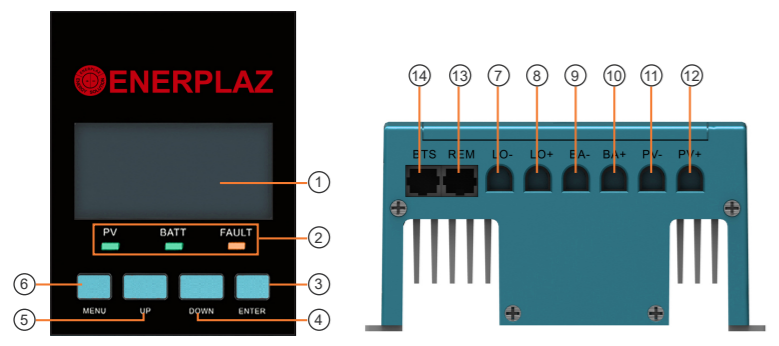
Features

- LCD display , easy to operate on LCD screen
- Multi stage charging
(3-stage charging , parallel charging and equalized charging function)
- BTS - Battery remote temperature sensor terminal
- Enable to charge Li-thium, Gel , lead-acid battery
- With RS485 communication port
- Protection: PV array short circuit, PV reverse polarity, Battery reverse polarity, Over charging, Output short circuit

Introduction

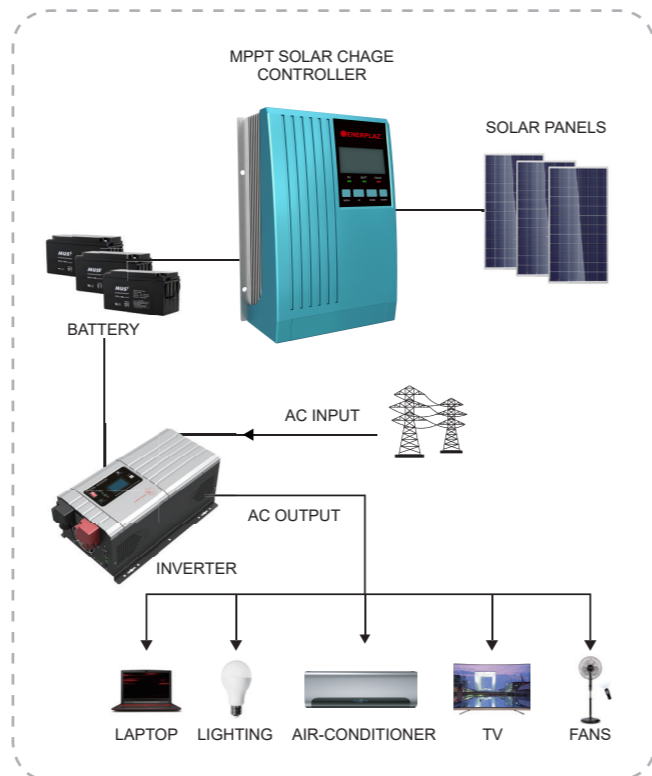
MPPT (Maximum Power Point Tracking) Solar Charge Controller offer an efficient, safe, multi-stage recharging process that prolongs battery life and assures peak performance from a solar array. Each Charge Controller allows customized battery recharging.

Back panel printing description



1. LCD Display
2. LED Indicator
3. Confirm the selection in setting mode
4. Decrease the setting data
5. Increase the setting data
6. Enter or exit setting mode
7. The load negative terminal
8. The load positive terminal
9. The battery negative terminal
10. The battery positive terminal
11. PV array negative terminal
12. PV array positive terminal
13. Communication network terminal
14. Remote external temperature terminal

Solar system connection



Specification

| MODEL | | PC16-2015A | PC16-3015A | PC16-4015A |
|---------------------------------|-------------------------------|--|--------------------|--------------------|
| Nominal Battery System Voltage | | 12VDC/24VDC (Auto Detection) | | |
| CONTROLLER INPUT | PV Open Circuit Voltage | 100VDC@12V/145VDC @24V | | |
| | PV Array MPPT Voltage Range | 16VDC~100VDC / 32VDC~130VDC | | |
| | Max PV Input Power(12V) | 300W | 450W | 600W |
| | Max PV Input Power(24V) | 600W | 900W | 1200W |
| BATTERY | Absorption Voltage | 12.5VDC / 25.0VDC | | |
| | Refloat Voltage | 13.7VDC / 27.4VDC | | |
| | Float Voltage | 14.3VDC / 28.6VDC | | |
| | Low Voltage Protection Point | 10.0VDC / 20.0VDC | | |
| DC OUTPUT | Output Voltage | 10.0~14.5VDC / 20.0~29.0VDC | | |
| | Peak Conversion Efficiency | 98%(MPPT Efficiency 99%) | | |
| | Max Charging Current | 20 amps continuous | 30 amps continuous | 40 amps continuous |
| | Max Output Current | 20 amps continuous | 20 amps continuous | 20 amps continuous |
| | Low Voltage alarm | 10.25VDC / 20.5VDC | | |
| | Low Voltage cut off | 10.0VDC / 20.0 VDC | | |
| | Low Voltage Recovery | 11.0VDC / 22.0VDC | | |
| GENERAL SPECIFICATION | Radiating Mode | Automatic cooling | | |
| DISPLAY & PROTECTION | LED Indication | Systematic operation, LV indication, LV protection, Over charge protection Loads protection, Short circuit protection | | |
| | LED Display | Charge Voltage, Charge Current, Voltage of storage battery, Capacity of storage battery, Output current | | |
| | Alarm Protections | PV array short circuit, PV reverse polarity | | |
| | | Battery reverse polarity, Over charging protection | | |
| Output short circuit protection | | | | |
| | | Low voltage protection for storage battery | | |
| MECHANICAL SPECIFICATIONS | Mounting | Wall mount | | |
| | Machine Dimension(W*H*D) | 154*236*88mm (color box / pcs) | | |
| | Gross Wight (kg)(per pcs) | 2.5kg | | |
| | Package Dimension (W*H*D) | 610*308*230mm (4PCS/Carton) | | |
| | Gross Weight (kg)(per carton) | 10.8kg | 13.4kg | 13.4kg |
| OTHER | Environmental Rating | Indoor | | |
| | Operation Temperature Range | -25°C ~ +55°C | | |
| | Loading (20GP/40GP/40HQ) | 2500pcs / 5000pcs / 5800pcs | | |