



## PC1600F Series MPPT Solar Charge Controller

### Feature:

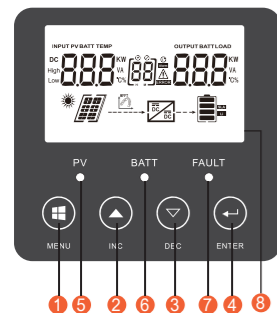
- 45A/60A MPPT Solar charge controller
- 12V/24V/36V/48V auto work
- MPPT efficiency>99%,Peak conversion efficiency >98%
- DSP processors technology ensure high speed and performance
- Multi-stage charging mode
- Protection: PV array short circuit , PV reverse polarity , Battery reverse polarity , Over charging , Output short circuit

### Introduction:

The 45A and 60A Controller Maximum Power Point Tracking Charge Controllers

The MPPT Solar Controller Maximum Power Point Tracking 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.

### LCD Display Information



1. MENU: Enter or exit setting mode.
2. INC: Increase the setting data.
3. DEC: Decrease the setting data.
4. ENTER: Confirm the selection in setting mode.
8. LCD display

LED indicator		System status	
5. PV	Green	On	PV voltage normal
		Flashing every 1s	PV fault is recovering
		Flashing every 2s	PV fault can't recover
	Off	PV is off	
6. BATT	Yellow	On	Battery voltage normal
		Flashing every 1s	Battery fault is recovering
		Flashing every 2s	Battery fault can't recover
	Off	Battery is off	
7. FAULT	Red	Flashing	Fault
		Off	Normal

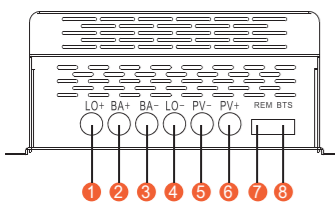


Figure 1 Charge Controller wiring compartment marks

1. LO+: The load positive terminal
2. BA+: The battery positive terminal
3. BA-: The battery negative terminal
4. LO-: The load negative terminal
5. PV-: PV array negative terminal
6. PV+: PV array positive terminal
7. REM: Communication network terminal
8. BTS: Remote external temperature terminal

### Solar System Connection



### Specification

Model	PC16-4515F	PC16-6015F	
<b>Default Battery System Voltage</b>		12V/24V/36V/48VDC (Auto detection)	
<b>CONTROLLER INPUT</b>	PV Open Circuit Voltage	100VDC@12V/ 145VDC @24V/ 145VDC @36V/ 145VDC @48V	
	PV Array MPPT Voltage Range	16VDC~100VDC / 32VDC~130VDC / 48VDC~130VDC / 64VDC~130VDC	
	Max PV Input Power(12V)	600W	800W
	Max PV Input Power(24V)	1200W	1600W
	Max PV Input Power(36V)	1800W	2400W
	Max PV Input Power(48V)	2400W	3200W
<b>BATTERY</b>	Absorption Voltage	12.5VDC/25.0VDC/37.5VDC/50.0VDC	
	Refloat Voltage	13.7VDC/27.4VDC/41.1VDC/54.8VDC	
	Float Voltage	14.3VDC/28.6VDC/42.9VDC/57.2VDC	
	Low Voltage Protection Point	8.5VDC/17VDC/25.5VDC/34.0VDC	
	Temperature Compensation coefficient	-3mv/°C /cell (25°C vef)	
<b>PATTERY</b>	Peak Conversion efficiency	98% (MPPT Efficiency 99%)	
	Max Charging Current	45 amps continuous @ 40°C ambient	60 amps continuous @ 40°C ambient
<b>GENERAL SPECIFICATION</b>	Radiating mode	Fan cooling	
<b>DISPLAY &amp; PROTECTION</b>	LED indication	Systematic operation, LV indication, LV protection, over charge protection, short circuit protection	
	LCD 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	
<b>MECHANICAL SPECIFICATIONS</b>	Mounting	Wall mount	
	W*H* D(mm)/Net Weight(kg)	167.6*257.1*82.9mm/3kg	
<b>OTHER</b>	Environmental Rating	Indoor	
	Operation Temperature Range	-25~55°C	
	Ambient humidity	0~90% relative humidity(non-condensing)	
	Altitude	≤3000m	
	Loading(20GP/40GP/40HQ)	3000pcs / 6000pcs / 7200pcs	

\* Product specifications are subject to change without further notice.

### Back Panel

