



PC1600F Series MPPT Solar Charge Controller

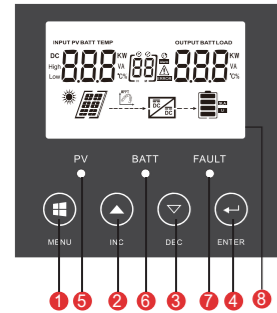
Feature:

- 45A/60A/80A MPPT solar charge controller(Fan cooling)
- 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:

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.

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

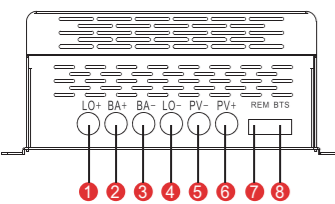
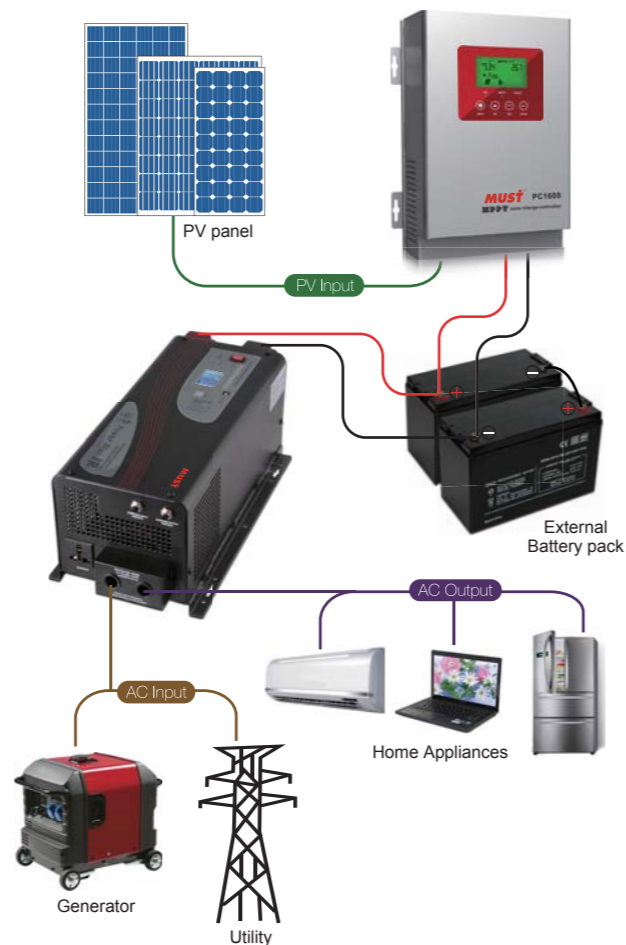


Figure 1 Charge Controller wiring compartment marks

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	PC16-8015F	
Default Battery System Voltage		12V/24V/36V/48VDC (Auto detection)		
CONTROLLER INPUT	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	1050W
	Max PV Input Power(24V)	1200W	1600W	2100W
	Max PV Input Power(36V)	1800W	2400W	3150W
BATTERY	Max PV Input Power(48V)	2400W	3200W	4200W
	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		
PATTERY	Temperature Compensation coefficient	-3mv/°C /cell (25°C vef)		
	Peak Conversion efficiency	98% (MPPT Efficiency 99%)		
GENERAL SPECIFICATION	Max Charging Current	45 amps continuous @ 40°C ambient	60 amps continuous @ 40°C ambient	80 amps continuous @ 40°C ambient
	Radiating mode	Fan cooling		
DISPLAY & PROTECTION	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				
MECHANICAL SPECIFICATIONS	Mounting	Wall mount		
	W*H* D(mm)/Net Weight(kg)	167.6*257.1*82.9mm/3kg		
OTHER	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.

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