



PC1800F Series MPPT Solar Charge Controller

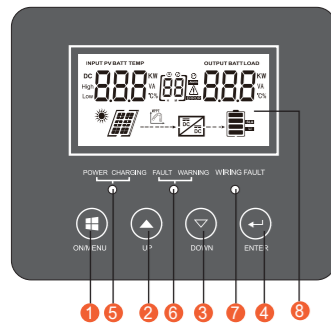
Feature:

- 60A/80A MPPT solar charge controller(Fan cooling)
- 12V/24V/48V (auto detection);36V(setting)
- 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
- Equalization charging function
- BTS function

Introduction:

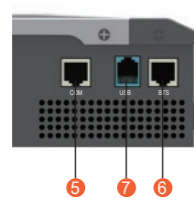
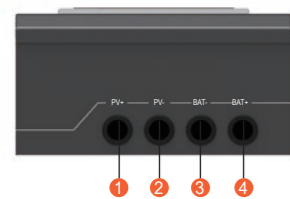
MPPT (Maximum Power Point Tracking)Solar Charge Controller offer an efficient, safe, multi-stage recharging process that prolongs battery life and assures peak performance from a solar array. Each Charge Controller allows customized battery recharging.

LCD Display Information

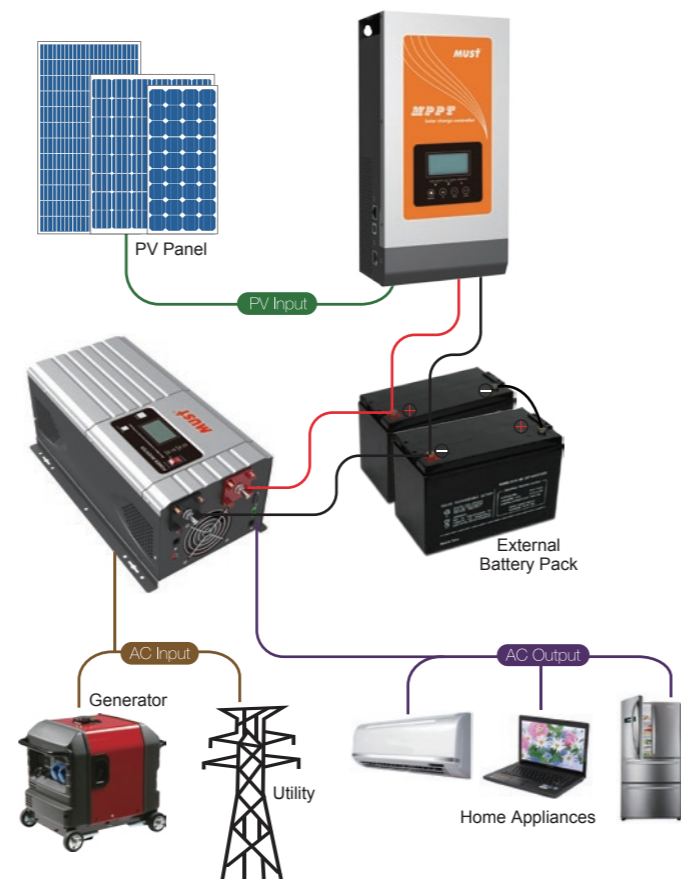


1. ON/MENU: Enter or exit setting mode.
2. UP: Increase the setting data.
3. DOWN: Decrease the setting data.
4. ENTER: Confirm the selection in setting mode.
8. LCD display

LED Indicator		Messages	
5. POWER ON/ CHARGING	Green	Solid On	The controller is on.
		Flashing	The controller is charging. Bulk charge stage : flashing every 0.5 second Absorption stage : flashing every second Equalize stage : flashing every 3 seconds Float stage : flashing every 5 seconds
6. FAULT/ WARNING	Red	Solid On	Fault occurs.
		Flashing	Warning situation occurs.
7. WIRING FAULT	Red	Solid On	Battery polarities are not connected correctly.



Solar System Connection



1. PV+: PV array positive terminal
2. PV-: PV array negative terminal
3. BA-: The battery negative terminal
4. BA+: The battery positive terminal
5. COM: RS485 Communication network terminal(Use for computer)
6. BTS: Battery Remote Temperature sensor terminal
7. USB

Specification

MODEL		PC18-6015F		PC18-8015F	
Nominal Battery System Voltage		12V/24V/48VDC (Auto detection); 36V(setting)			
CONTROLLER INPUT	Battery Voltage	12V	24V	36V	48V
	Maximum Solar Input Voltage	100V			
	PV Array MPPT Voltage Range	15~95V	30~130V	45~130V	60~130V
	Max PV Input Power(12V)	938W		1250W	
	Max PV Input Power(24V)	1875W		2500W	
	Max PV Input Power(36V)	2813W		3750W	
	Max PV Input Power(48V)	3750W		5000W	
BATTERY	Charging Set points	Absorption Stage		Float Stage	
	Flooded Battery	14.2V/28.4V/42.6V/56.8V		13.7V/27.4V/41.1V/54.8V	
	AGM/Gel/LEAD battery (Default)	14.4V/28.8V/43.2V/57.6V		13.7V/27.4V/41.1V/54.8V	
	Over-charging voltage	15.5V/30.0V/45.0V/60.0V			
	Over-charging comeback voltage	14.5V/29.5V/44.5V/59.0V			
	Battery defect voltage	10.0V/17.0V/25.5V/34.0V			
	Temperature Compensation coefficient	-3mv°C /cell (25°C vef)			
PATTERY	Peak Conversion efficiency	98% (MPPT Efficiency 99%)			
	Max Charging Current	60 amps continuous @ 40°C ambient		80 amps continuous @ 40°C ambient	
GENERAL SPECIFICATION	Radiating mode	Fan cooling			
DISPLAY & PROTECTION	Protections	Solar high voltage disconnect Solar high voltage reconnect Battery high voltage disconnect Battery high voltage reconnect High temperature disconnect High temperature reconnect			
	MECHANICAL SPECIFICATIONS	Mounting	Wall mount		
	Machine Dimension(W*H* D)	152*100*294mm (per pcs)			
	G.W(Kg)	3Kg/pcs			
	Package Dimension(W*H* D)	612*308.2*235.6mm (5pcs/Carton)			
	Gross Weight(Kg)	17.4Kg (per Carton)	19Kg (per Carton)		
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.

Side panel



Back Panel

