


**MPPT Solar Charge Controller**  
**PC1800F Series (60A/80A/100A)**



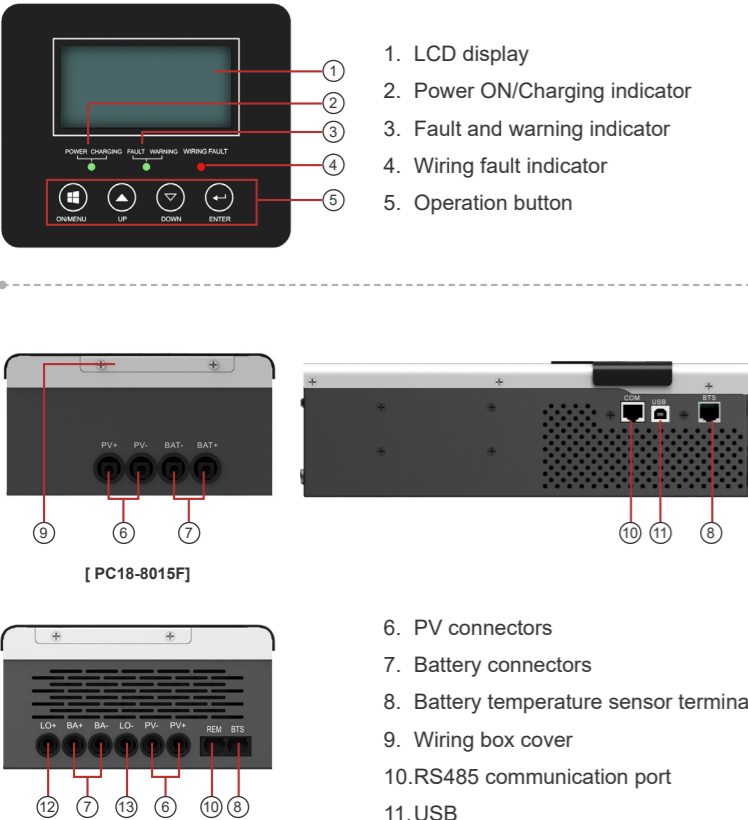
### Features

- LCD display , easy to operate on LCD screen
- Multi stage charging (3-stage charging , parallel charging and equalized charging function)
- Maximum Solar Input Voltage: 245V
- BTS – Battery remote temperature sensor terminal
- Enable to charge Li-thium, Gel , lead-acid battery
- With RS485 & USB communication port
- Protection: PV array short circuit, PV reverse polarity, Battery reverse polarity, Over charging, Output short circuit

**Introduction**

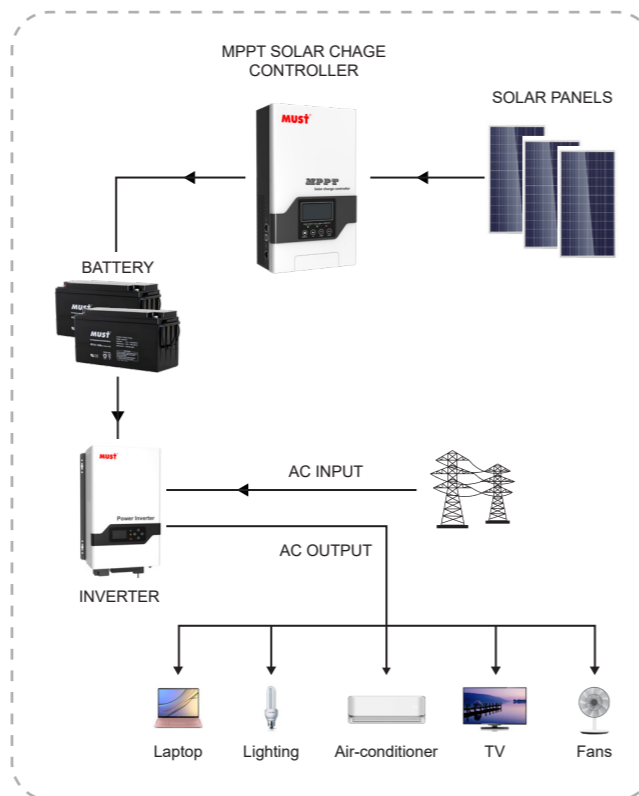
MPPT (Maximum Power Point Tracking) Solar Charge Controller offer an efficient, safe, multi-stage recharging process that prolongs battery life and assures peak performance from a solar array. Each Charge Controller allows customized battery recharging.

**Back panel printing description**



1. LCD display
2. Power ON/Charging indicator
3. Fault and warning indicator
4. Wiring fault indicator
5. Operation button
6. PV connectors
7. Battery connectors
8. Battery temperature sensor terminal
9. Wiring box cover
10. RS485 communication port
11. USB
12. The load positive terminal
13. The load negative terminal

**Solar system connection**



**Specification**

MODEL		PC18-6025F	PC18-8025F	PC18-10025F	
Nominal Battery System Voltage		12V / 24V / 48VDC (Auto detection); 36V (Setting)			
CONTROLLER INPUT	Battery Voltage	12V	24V	36V	48V
	Maximum Solar Input Voltage	100V	245V		
	PV Array MPPT Voltage Range	15~195V	30~230V	45~230V	60~230V
	Maximum Input Power	12 Volt-940W 24 Volt-1880W 36 Volt-2820W 48 Volt-3760W	12 Volt-1250W 24 Volt-2500W 36 Volt-3750W 48 Volt-5000W	12 Volt-1560W 24 Volt-3120W 36 Volt-4680W 48 Volt-6250W	
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 (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	-5mv / °C / cell (25°C vef)			
	Peak Conversion Efficiency	98% (MPPT Efficiency 99%)			
	Maximum Battery Current	60A	80A	100A	
	Maximum DC load current	/	/	100A	
Max Charging Current	60amps continuous @ 40°C ambient	80amps continuous @ 40°C ambient	100amps continuous @ 40°C ambient		
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	Machine Dimension (W*H*D)(mm)	306.6*163.6*94.9		215*134*335	
	G.W (kg)	3kg		4kg	
OTHER	Mounting	Wall mount			
	Environmental Rating	Indoor			
	Enclosure	IP20			
	Radiating Mode	Fan cooling			
	Operation Temperature Range	-10~55°C			
	Ambient Humidity	0~90% relative humidity (non-condensing)			
Altitude	≤3000m				