

MPPT Solar Charge Controller

PC1800F Series (60A/80A/100A)



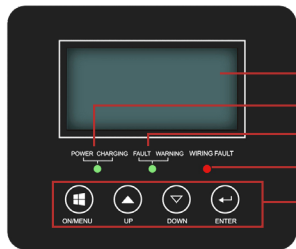
Features

- LCD display , easy to operate on LCD screen
- Multi stage charging
(3-stage charging , parallel charging and equalized charging function)
- 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

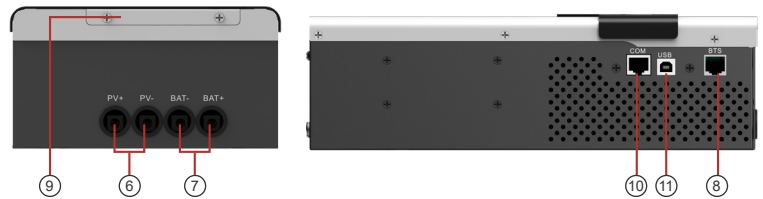
Introduction

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.

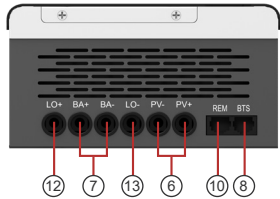
Back panel printing description



1. LCD display
2. Power ON/Charging indicator
3. Fault and warning indicator
4. Wiring fault indicator
5. Operation button

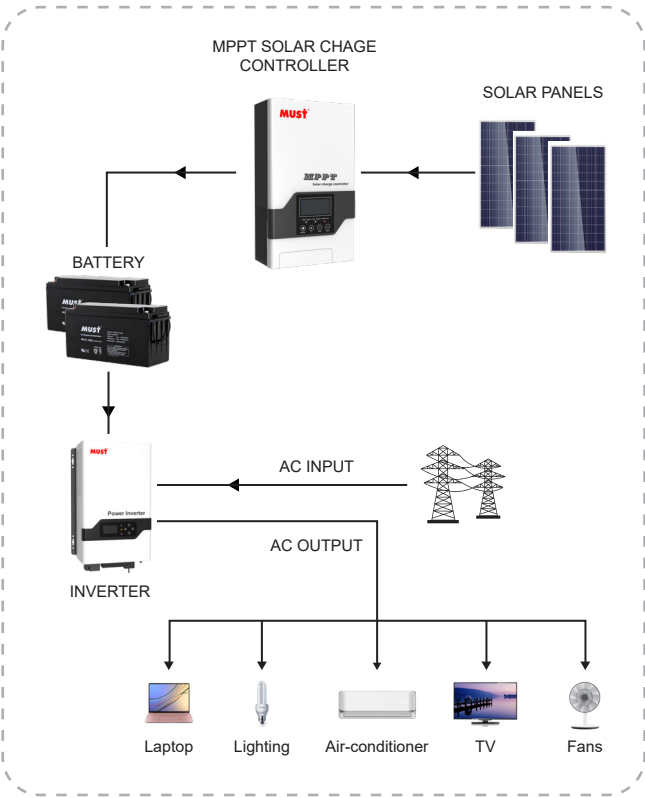


6. PV connectors
7. Battery connectors
8. Battery temperature sensor terminal



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		PC18-6015F		PC18-8015F		PC18-10015F
Nominal Battery System Voltage		12V / 24V / 48VDC (Auto detection); 36V (Setting)				
CONTROLLER INPUT	Battery Voltage	12V	24V	36V	48V	48V
	Maximum Solar Input Voltage	100V	145V			
	PV Array MPPT Voltage Range	15~95V	30~130V	45~130V	60~130V	60~130V
	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 Conefficient	-5mv / °C /cell (25°C vef)				
	Peak Conversion Efficiency	98% (MPPT Efficiency 99%)				
	Maximum Battery Current	60Amps		80Amps		100Amps
	Max Charging Current	60amps continuous @ 40°C ambient		80amps continuous @ 40°C ambient		100amps 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)(mm)	165*285*87 (per pcs)				
	G.W (kg)	/				
	Package Dimension (W*H*D)(mm)	/				
	Gross Weight (kg)	/				
OTHER	Environmental Rating	Indoor				
	Operation Temperature Range	-10~55℃				
	Ambient Humidity	0~90% relative humidity (non-condensing)				
	Altitude	≤3000m				

The technical specifications of this document are subject to change without any notice