MPPT Solar Charge Controller (245V)

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



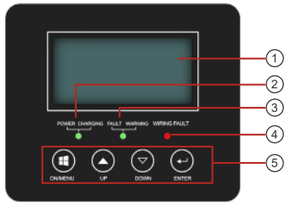
Features

- 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

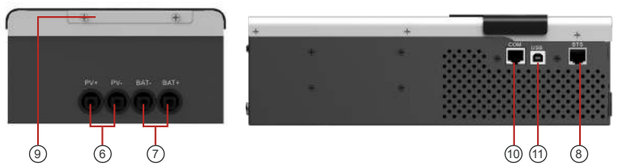
Introduction

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.

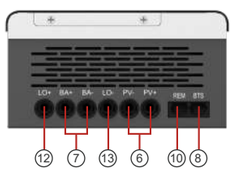
Back panel printing description



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



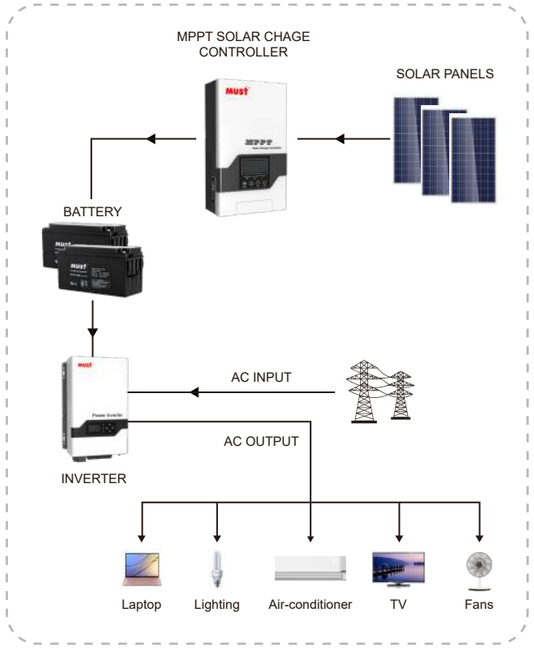
[PC18-8015F]



[PC18-10015F]

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



MUST
Solar Power System

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	12V (VBAT)	100V		
		24V (VBAT)	245V		
		36V (VBAT)	245V		
		48V (VBAT)	245V		
	PV Array MPPT Voltage Range	12V (VBAT)	15-95V		
		24V (VBAT)	30~230V		
		36V (VBAT)	45~230V		
		48V (VBAT)	60~230V		
	Maximum Input Power	12V (VBAT)	940W	1250W	1560W
		24V (VBAT)	1880W	2500W	3120W
		36V (VBAT)	2820W	3750W	4680W
		48V (VBAT)	3760W	5000W	6250W
BATTERY	Charging Set Points	Flooded Battery Absorption Stage	14.2V / 28.4V / 42.6V / 56.8V		
		Flooded Battery Float Stage	13.7V / 27.4V / 41.1V / 54.8V		
		AGM (Default) Absorption Stage	14.4V / 28.8V / 43.2V / 57.6V		
		AGM (Default) Float Stage	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 / ℃ /cell (25℃ 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℃ ambient	80amps continuous @ 40℃ ambient	100amps continuous @ 40℃ 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)		306.6*163.6*94.9mm		284*165*97mm
	Package Dimension (W*H*D)		/		/
	G.W		3kg		4kg
	N.W		/		
OTHER	Mounting		Wall mount		
	Environmental Rating		Indoor		
	Enclosure		IP20		
	Radiating Mode		Fan cooling		
	Operation Temperature Range		-10~55℃		
	Ambient Humidity		0~90% relative humidity (non-condensing)		
	Altiude		≤3000m		

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