


MPPT Solar Charge Controller PC1800A Series (60A/80A)



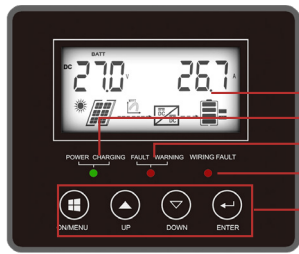
Features

- 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

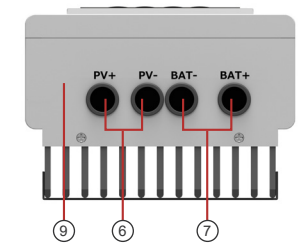
Introduction

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.

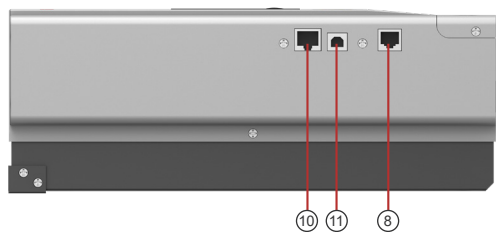
Back panel printing description



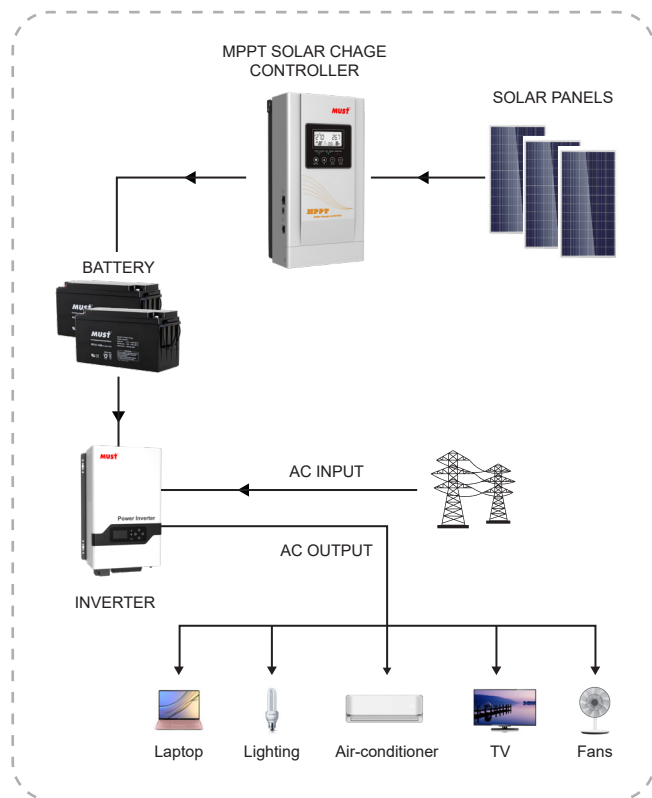
1. LCD display
2. Power ON/Charging indicator
3. Fault and warning indicator
4. Wiring fault indicator
5. Operation button



6. PV connextors
7. Battery connectors
8. Battery temperature sensor terminal
9. Wiring box cover
10. RS485 communication port
11. USB



Solar system connection



Specification

MODEL	PC18-6015A	PC18-8015A			
Nominal Battery System Voltage	12V / 24V / 48VDC (Auto detection); 36V (Setting)				
ELECTRICAL SPECIFICATIONS	Maximum Battery Current	60Amps	80Amps		
	Battery Voltage	12V	24V	36V	48V
	Maximum Solar Input Voltage	100V	145V		
	PV Array MPPT Voltage Range	15~95V	30~130V	45~130V	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	
	Protections	Solar high voltage disconnect; Solar high voltage reconnect; Battery high voltage disconnect; Battery high voltage reconnect; High temperature disconnect; High temperature reconnect			
BATTERY CHARGING	Charging Algorithm	3-Step or 4-Step (Li)			
	Temperature Compensation Coefficient	-5mV / °C / cell (25°C ref.)			
	Temperature Compensation Set Points	Absorption, Float			
	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			
MECHANICAL AND ENVIRONMENT	Machine Dimension (W*H*D)	315*160*135mm			
	Package Dimension (W*H*D)	/			
	G.W	/			
	N.W	/			
	Ambient Temperature Range	-10°C to 55°C			
	Storage Temperature	-40°C to 75°C			
	Humidity	0%~90% RH (No condensing)			
Enclosure	IP20				