

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

MPPT Solar Charge Controller

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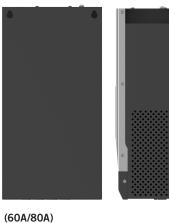




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INTRODUCTION

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.

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



Max charging current 60A to 100A



Radiating mode Fan cooling



Multi protection



Battery smart charge design



Battery DC voltage 12V/24V/48V (Auto detection) 36V (Setting)



Peak conversion efficiency:98% (MPPT Efficiency 99%)



Charging set points
Absorption stage
Float stage

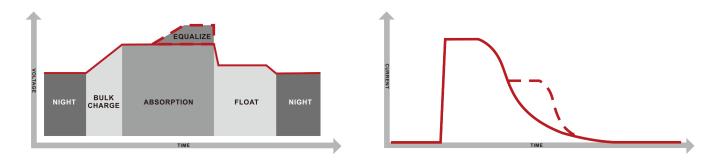


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EQUALIZE STAGE CHARGING FUNCTION

Equalization function reverses the buildup of negative chemical effects like stratification, a condition where acid concentration is greater at the bottom of the battery than at the top. Equalization also helps to remove sulfate crystals that might have built up on the plates.



BATTERY REVERSE PROTECTION

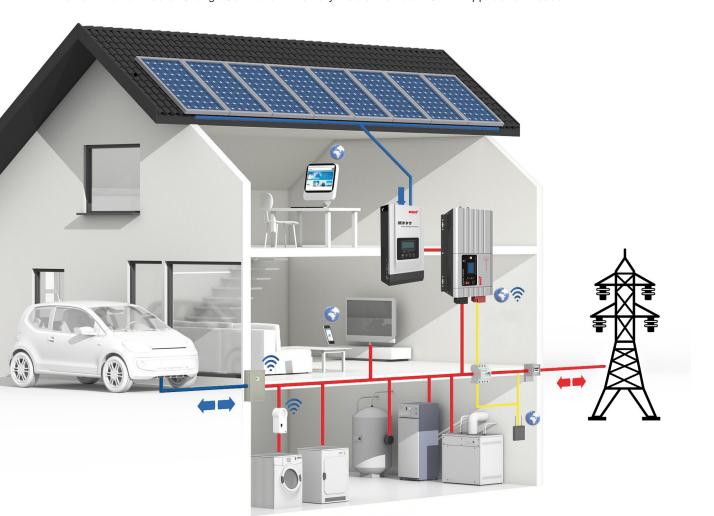
There's a battery reverse protection function in the board, then the controller will be perfectly protected even installer or user connect the battery in reverse pole accidentally

APPLICABLE PLACE

The solar charge controller is an automatic control device, it can be used in all solar power systems to control solar panel array to charge batteries.

Solar Inverter System Connection:

Power Inverter + Solar Charge Controller + Battery + Solar Panels + Grid + Application Loads

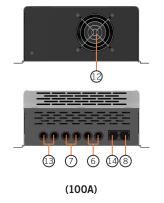




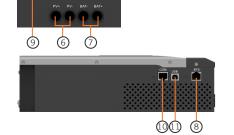
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(60A/80A)

- 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
- 12. FAN
- 13. Load connextors
- 14. Communication network terminal
- 15. PV indicator
- 16. Battery indicator

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	24Volt-1880W 24Volt 36Volt-2820W 36Volt		-1250W -2500W -3750W -5000W	12Volt-1550W 24Volt-3100W 36Volt-4650W 48Volt-6200W	
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				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%)				
	Max Charging Current			inuous @ 40°C bient	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)	152*85*294 mm (per pcs) 175*82.9*257.1				
	G.W (kg)	3kg/pcs				
	Package Dimension (W*H*D)	625*366*232 mm (4pcs / Carton) /				
	Gross Weight (kg)	14kg				
OTHER	Environmental Rating	Indoor				
	Operation Temperature Range	-10~55°C				
	Ambient Humidity	0~90% relative humidity (non-condensing)				
	Altiude	≤3000m				