

PC1800A SERIES (60A / 80A)

MPPT Solar Charge Controller

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MPPT Solar Charge Controller





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 80A



Air cooling



Multi protection



Battery smart charge design



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



Advanced maximum power point tracking (MPPT) technology



High tracking efficiency >99.5%

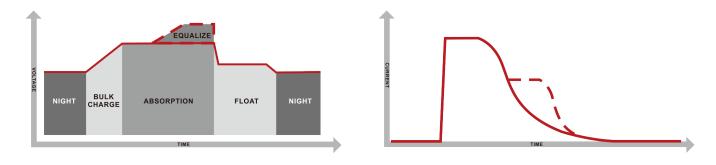


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EQUALIZE STAGE CHARGING FUNCTION

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

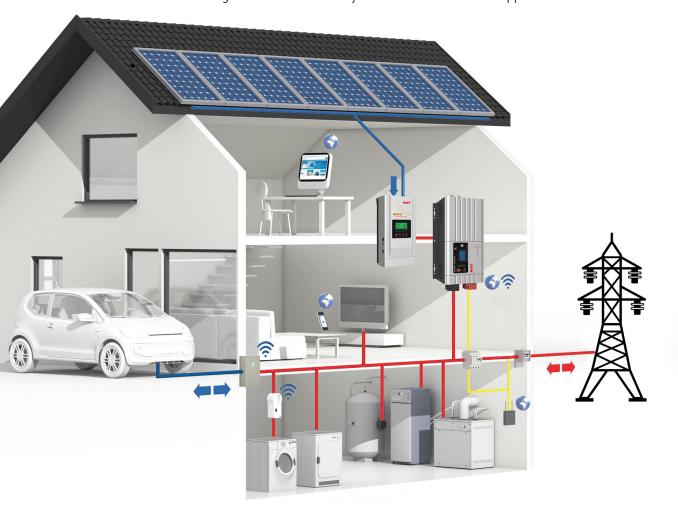
TThere's a battery reverse protection function in the board, then the controller will be perfectly protected even installer or user connect the battery in reverse pole accidentally

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

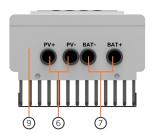


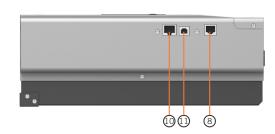


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- 1. LCD display
- 2. Power ON/Charging indicator
- 3. Fault and warning indicator
- 4. Wiring fault indicator
- 5. Operation button
- 6. PV connextors
- 7. Battery connectors
- 8. Battery temperature sensor terminal
- 9. Wiring box cover
- 10. RS485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

MODEL		PC18-6015A		PC18-8015A		
Nominal Battery System Voltage		12V/24V/48VDC (Auto detection); 36V (Setting)				
	Battery Voltage	12V	24V	36V	48V	
ELECTRICAL SPECIFICATIONS	Maximum Battery Current	60A	60Amps 80Amps		mps	
	Battery Voltage					
	PV Array MPPT Voltage Range	15~95V	30~130V	45~130V	60~130V	
	Maximum Input Power	12 Volt-940W 12 Volt-12: 24 Volt-1880W 24 Volt-25: 36 Volt-2820W 36 Volt-37: 48 Volt-3760W 48 Volt-50:		2500W 3750W		
	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)				
	Charging Stages	Bulk, Absorption, Float				
	Temperature Compenssation Coefficient	-5mV / °C / cell (25°C ref.)				
	Temperature Compenssation Range	0°C to+50°C				
	Temperature Compenssation 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/	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	Product Size (W*H*D)(mm)	315*160*135				
	Product Weight (kg)	4.7kg				
	Ambient Temperature Range	-10°C to 75°C				
	Storage Temperature	-40°C to75°C				
	Humidity	0%~90% RH (No condensing)				
	Enclosure	IP20				