

MPPT SOLAR CHARGE CONTROLLER

PC1800A Series

60A,80A | 12V,24V,48V

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.



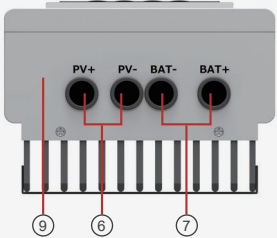
- LCD display , easy to operate on LCD screen
- Multi stage charging (3-stage charging , parallel charging and equalized charging function)
- BTS – Battery remote temperature sensor terminal
- Enable to charge Li-thium, Gel , lead-acid battery
- With RS485 & USB communication port
- Protection: PV array short circuit, PV reverse polarity, Battery reverse polarity, Over charging, Output short circuit



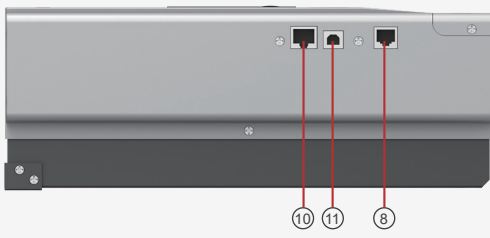
Back panel description



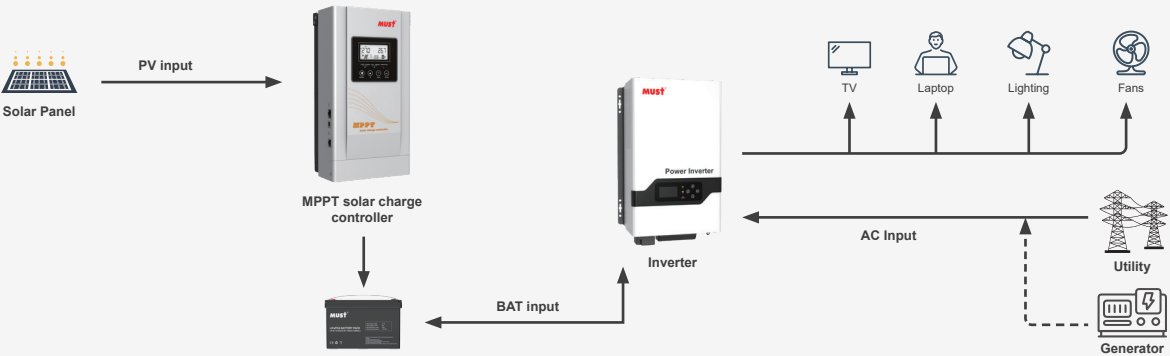
- LCD display
- Power ON/Charging indicator
- Fault and warning indicator
- Wiring fault indicator
- Operation button



- PV connextors
- Battery connectors
- Battery temperature sensor terminal
- Wiring box cover
- RS485 communication port
- USB



Solar system connection



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	12V (VBAT)	100V	
	24V (VBAT)	145V	
	36V (VBAT)	145V	
	48V (VBAT)	145V	
PV Array MPPT Voltage Range	12V (VBAT)	15~95V	
	24V (VBAT)	30~130V	
	36V (VBAT)	45~130V	
	48V (VBAT)	60~130V	
Maximum Input Power	12V (VBAT)	940W	1250W
	24V (VBAT)	1880W	2500W
	36V (VBAT)	2820W	3750W
	48V (VBAT)	3760W	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	Flooded Battery	Absorption Stage	14.2V/ 28.4V/ 42.6V/ 56.8V
		Float Stage	13.7V/ 27.4V/ 41.1V/ 54.8V
	AGM/ GEL/ LEAD Battery (Default)	Absorption Stage	14.4V/ 28.8V/ 43.2V/ 57.6V
		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
MECHANICAL & ENVIRONMENT			
Machine Dimension (W*H*D)(mm)			315*160*135
Package Dimension (W*H*D)(mm)			/
N.W(kg)			/
G.W(kg)			/
Operating Temperature Range			-10°Cto 55°C
Storage Temperature			-40°Cto 75°C
Humidity			0%~90% RH (No condensing)
Enclosure			IP20
CERTIFICATION & STANDARDS			

UKCA (BS IEC62109-1:2010)+CE-LVD(EN IEC62109-1:2010)
CE-EMC+LVD (EN6100-6-3:2007+A1:2011,EN6100-6-1:2019+EN IEC62109-1:2010)

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