

MPPT SOLAR CHARGE CONTROLLER PC1800F Series



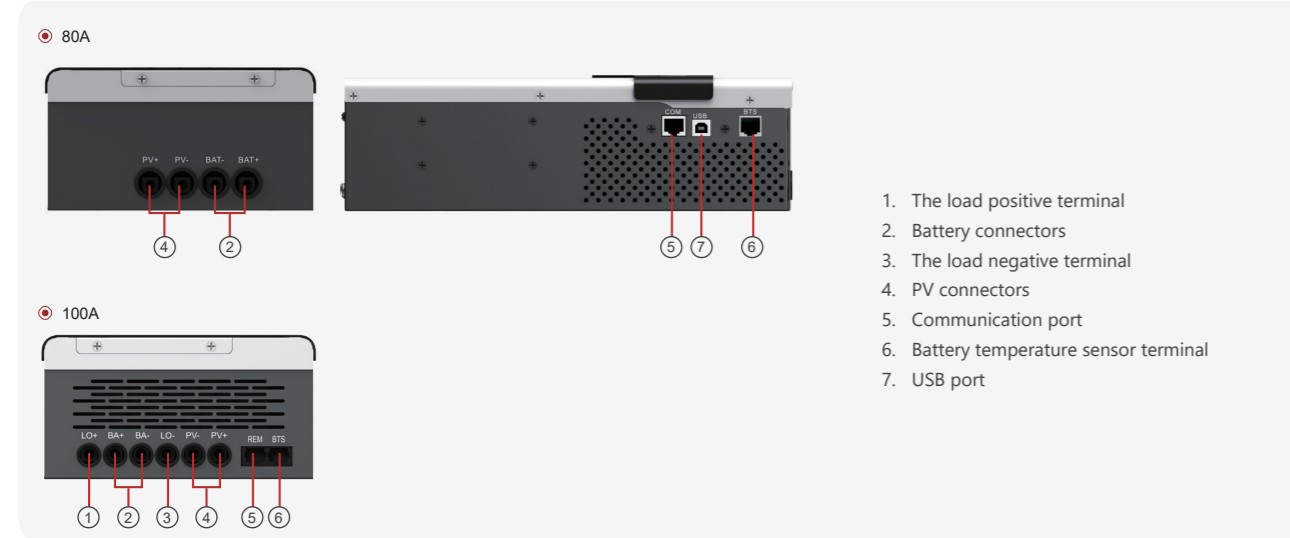
60~100A | 12V,24V,36V,48V | 245V

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.

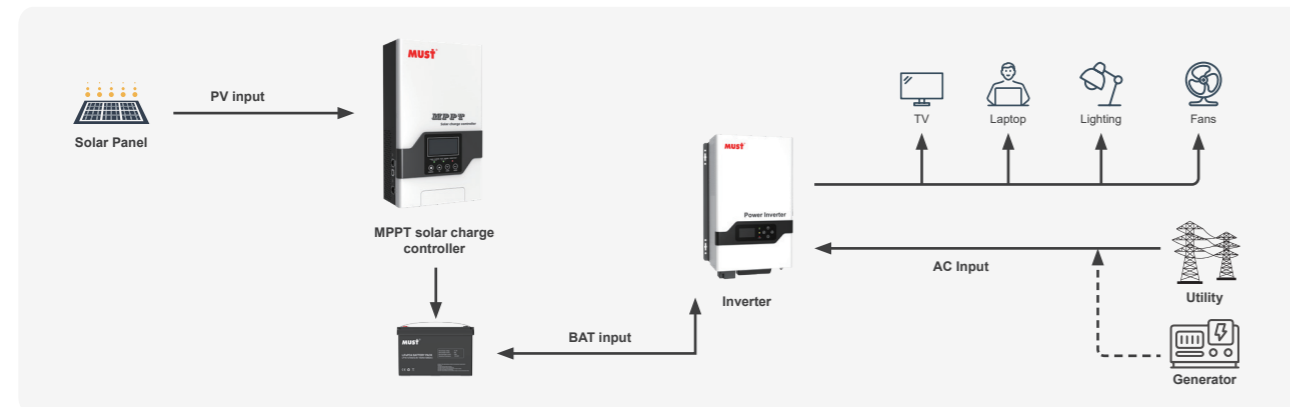


- LCD display , easy to operate on LCD screen
- Multi stage charging (3-stage charging , parallel charging and equalized charging function)
- Maximum Solar Input Voltage: 245V
- BTS – Battery remote temperature sensor terminal
- Enable to charge Li-thium, Gel , lead-acid battery
- With RS485 & USB communication port
- Protection: PV array short circuit, PV reverse polarity, Battery reverse polarity, Over charging, Output short circuit

Back panel description



Solar system connection



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	
		Float Stage	13.7V / 27.4V / 41.1V / 54.8V	
	AGM (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		
Temperature Compensation Coefficient		-5mv / °C /cell (25°C 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°C ambient	80amps continuous @ 40°C ambient	100amps continuous @ 40°C 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)(mm)	163.6*306.6*94.9	165*284*97
Package Dimension (W*H*D)(mm)	/	/
N.W(kg)	3	4
G.W(kg)	/	/

OTHER	
Mounting	Wall mount
Environmental Rating	Indoor
Enclosure	IP20
Radiating Mode	Fan cooling
Operating Temperature Range	-10~55°C
Ambient Humidity	0~90% relative humidity (non-condensing)
Altiude	≤3000m

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