

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

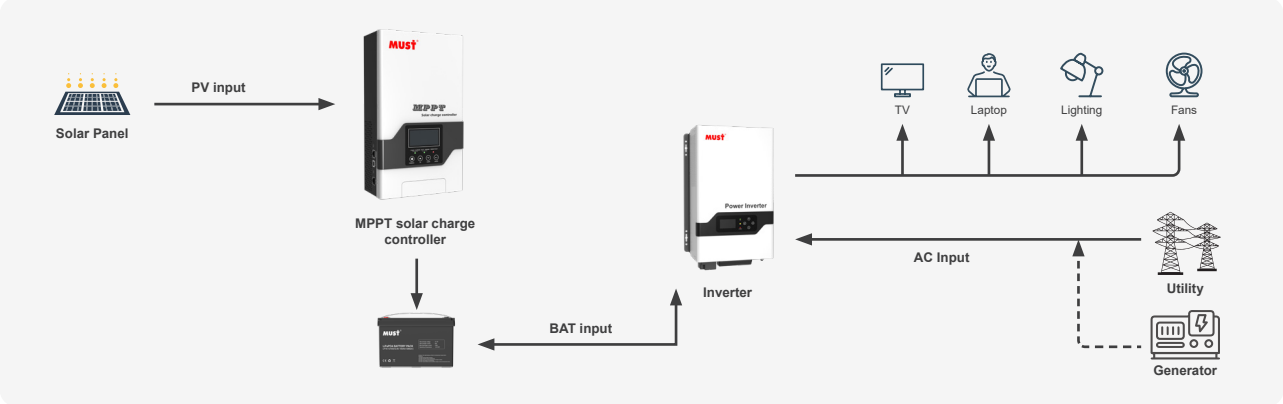
Back panel description

80A

1. The load positive terminal
2. Battery connectors
3. The load negative terminal
4. PV connectors
5. Communication port
6. Battery temperature sensor terminal
7. USB port

100A

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 Conefficient			-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		
Operation Temperature Range			-10~55°C		
Ambient Humidity			0~90% relative humidity (non-condensing)		
Altiude			≤3000m		
CERTIFICATION & STANDARDS					

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