

MPPT SOLAR CHARGE CONTROLLER

PC1600A Series

20A, 30A, 40A | 12V,24V

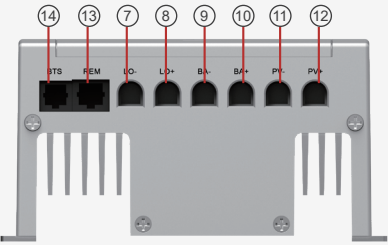
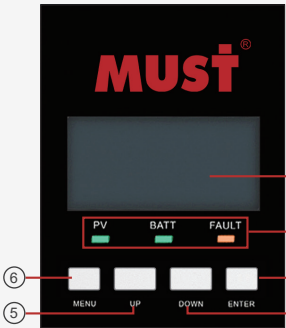
MPPT (Maximum Power Point Tracking)Solar Charge Controller offer an efficient, safe, multi-stage recharging process that prolongs battery life and assures peak performance from a solar array. Each Charge Controller allows customized battery recharging.



- 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

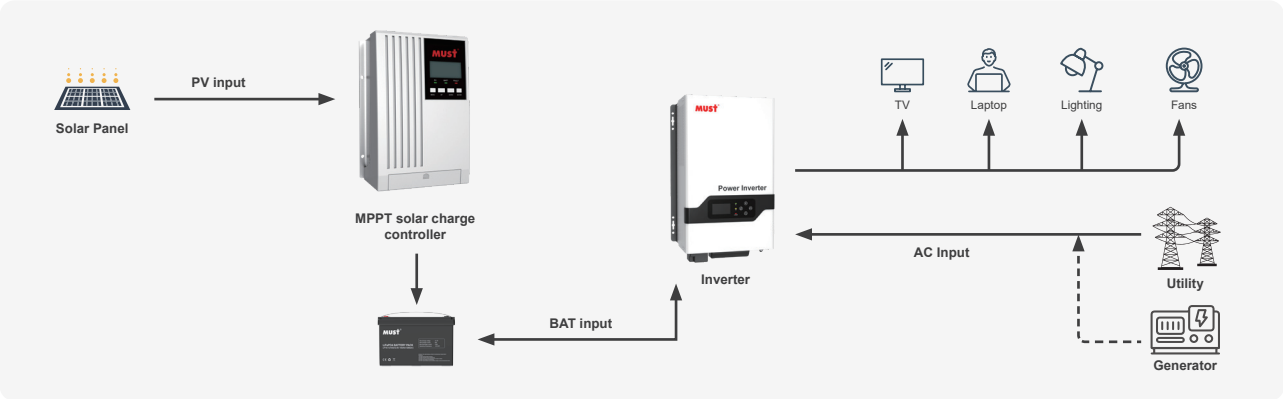


Back panel description



1. LCD Display
2. LED Indicator
3. Confirm the selection in setting mode
4. Decrease the setting data
5. Increase the setting data
6. Enter or exit setting mode
7. The load negative terminal
8. The load positive terminal
9. The battery negative terminal
10. The battery positive terminal
11. PV array negative terminal
12. PV array positive terminal
13. Communication network terminal
14. Remote external temerature terminal

Solar system connection



MODEL		PC16-2015A	PC16-3015A	PC16-4015A
Nominal Battery System Voltage		12VDC / 24VDC (Auto Detection)		
CONTROLLER INPUT				
PV Open Circuit Voltage	12V	100VDC		
	24V	145VDC		
PV Array MPPT Voltage Range	12V	16VDC~100VDC		
	24V	32VDC~130VDC		
Max PV Input Power	12V	300W	450W	600W
	24V	600W	900W	1200W
BATTERY				
Absorption Voltage	12V	12.5VDC		
	24V	25.0VDC		
Refloat Voltage	12V	13.7VDC		
	24V	27.4VDC		
Float Voltage	12V	14.3VDC		
	24V	28.6VDC		
Low Voltage Protection Point	12V	10.0VDC		
	24V	20.0VDC		
DC OUTPUT				
Output Voltage	12V	10.0~14.5VDC		
	24V	20.0~29.0VDC		
Peak Conversion Efficiency		98%(MPPT Efficiency 99%)		
Max Charging Current		20 amps continuous	30 amps continuous	40 amps continuous
Max Output Current		20 amps continuous	20 amps continuous	20 amps continuous
Low Voltage alarm	12V	10.25VDC		
	24V	20.5VDC		
Low Voltage cut off	12V	10.0VDC		
	24V	20.0 VDC		
Low Voltage Recovery	12V	11.0VDC		
	24V	22.0VDC		
DISPLAY & PROTECTION				
LED Indication		Systematic operation, LV indication, LV protection, Over charge protection Loads protection, Short circuit protection		
LED Display		Charge Voltage, Charge Current, Voltage of storage battery, Capacity of storage battery, Output current		
Alarm Protections	PV array short circuit, PV reverse polarity			
	Battery reverse polarity, Over charging protrction			
	Output short circuit protection			
	Low voltage protection for storage battery			
MECHANICAL SPECIFICATIONS				
Mounting		Wall mount		
Machine Dimension (W*H*D)(mm)		154*236*88		
Package Dimension (W*H*D)(mm)		/	/	/
N.W(kg)		/		
G.W(kg)		/	/	/
OTHER				
Environmental Rating		Indoor		
Radiating Mode		Automatic cooling		
Operating Temperature Range		0°C~ 55°C		
Loading (20GP/40GP/40HQ)		2500pcs / 5000pcs / 5800pcs		
CERTIFICATION & STANDARDS				

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