MPPT SOLAR CHARGE CONTROLLER PC1800A Series

30A, 40A | 12V,24V

MUST MPPT 0000

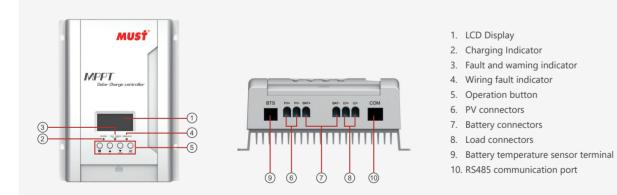
This solar charge controller is an advanced solar charger with maximum power point tracking. Applying intelligent MPPT algorithm, it allows solar charge controller to extract maximum power from solar arrays by finding the maximum power point of the array.

The MPPT battery charging process has been optimized for long battery life and improved system performance. Self-diagnostics and electronic error protections prevent damage when installation errors or system faults occur.

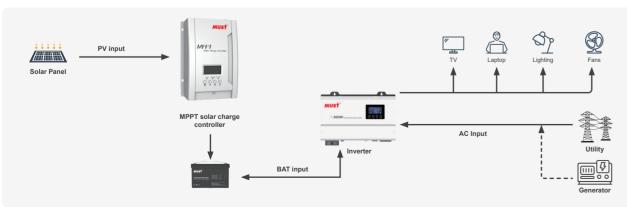
CE IEC

- Intelligent Maximum Power Point Tracking technology increases efficiency 25%~30%
- Compatible for PV systems in 12V,or24V
- Three-stage charging optizes battery performance
- Maximum charging current up to 30A/40A
- Advanced MPPT technology, with efficient no less than 99%
- Maximum DC- DC conversion efficiency of 98%
- Battery temperature sensor(BTS) automatically provides temperature compensation Automatic battery voltage detection
- Integrated intelligent slot compatible with 485 communication

Back panel description



Solar system connection



MODEL			PC18-3015A	PC18-4015A
Nominal Battery System Voltage			12V / 24V (Auto detection)	
CONTROL	LER INPUT			
Battery Voltage			12V/	24V
Open circuit voltage			145V	
PV Array MPPT Voltage Range			60-130VDC	
Maximum Input Power 24V		12V	432W	576W
		24V	864W	1152W
BATTERY			1 1	
Charging Set Points	Flooded Battery	Absorption Stage	14.2V/28.4V	
		Float Stage	13.7V/27.4V	
	AGM/GEL/LEAD (Default)	Absorption Stage	14.4V/28.8V	
		Float Stage	13.7V/27.4V	
Over-charging Voltage			15.5V / 30.0V	
Over-charging Comeback Voltage			14.5V / 29.5V	
Battery Defect Voltage			10.0V / 17.0V	
Temperature Compensation Coefficient		ient	-5mv / °C /cell (25°C vef)	
Peak Conversion Efficiency			98% (MPPT Efficiency 99%)	
Maximum Battery Current			30A	40A
Max Charging Current			30amps continuous @ 40°C ambient	40amps continuous @ 40°C ambient
GENERAL	SPECIFICATION			
Radiating Mode			Automatic cooling	
Protections			Solar high voltage disconnect/ Solar high voltage reconnect/ Battery high voltage disconne Battery high voltage reconnect/ High temperature disconnect/ High temperature reconnect	
MECHANI	CAL SPECIFICATIONS			
Mounting			Wall mount	
Machine Dimension (W*H*D)(mm)			187*255*72mm	
Package Dimension (W*H*D)(mm)			/	
N.W(kg)			/	
G.W(kg)			/	
OTHER				
Environmental Rating			Indoor	
Enclosure			IP30	
Operating Temperature Range			-10~50°C	
Ambient Humidity			0~90% relative humidity (non-condensing)	
Altiude			≤3000m	

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