

# MPPT Solar Charge Controller

## PSc60A#12-48VPVM



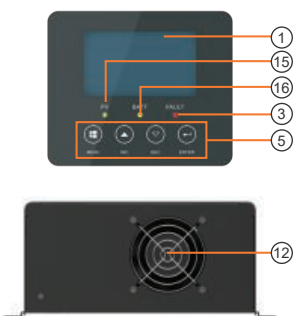
### Features

- 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

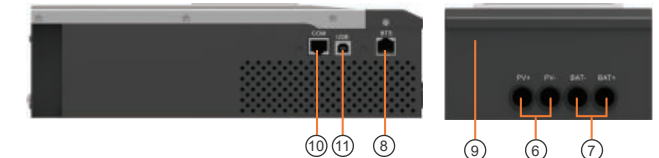
### Introduction

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.

### Back panel printing description

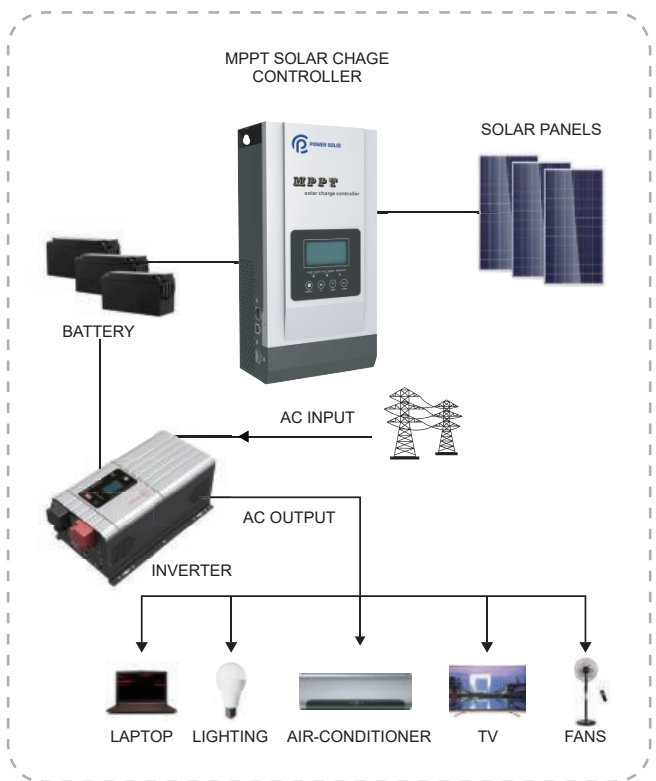


1. LCD display
2. Power ON/Charging indicator
3. Fault and warning indicator
4. Wiring fault indicator
5. Operation button
6. PV connectors
7. Battery connectors
8. Battery temperature sensor terminal
9. Wiring box cover
10. RS485 communication port
11. USB
12. FAN
13. Load connectors
14. Communication network terminal
15. PV indicator
16. Battery indicator



(60A)

### Solar system connection



## Specification

MODEL		PSc60A#12-48VPVM	
Nominal Battery System Voltage		12V\24V\48VDC (Auto detection); 36V (Setting)	
CONTROLLER INPUT	Battery Voltage	12V	24V
	Maximum Solar Input Voltage	100V	145V
	PV Array MPPT Voltage Range	15~95V	30~130V
	Maximum Input Power	12 Volt-940W 24 Volt-1880W 36 Volt-2820W 48 Volt-3760W	
BATTERY	Charging Set Points	Absorption Stage	
	Flooded Battery	14.2V \ 28.4V \ 42.6V \ 56.8V	
	AGM (Default)	14.4V \ 28.8V \ 43.2V \ 57.6V	
	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%)	
	Mximum Battery Current	60Amps	
	Max Charging Current	60amps continuous @ 40°C ambient	
GENERAL SPECIFICATION	Radiating Mode	Fan cooling	
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	Mounting	Wall mount	
	Machine Dimension (W*H*D)	152*85*294 mm (per pcs)	
	G.W (kg)	3kg/pcs	
	Package Dimension (W*H*D)	625*366*232 mm (4pcs / Carton)	
	Gross Weight (kg)	14kg	
OTHER	Environmental Rating	Indoor	
	Operation Temperature Range	-10~55°C	
	Ambient Humidity	0~90% relative humidity (non-condensing)	
	Altitude	≤3000m	