Solar System



PC1600A Series

MPPT Solar Charge Controller

Feature:

- 45A/60A MPPT Solar charge controller (Air cooling)
- 12V/24V/36V/48V auto work
- MPPT efficiency>99%,Peak conversion efficiency >98%
- DSP processors architecture ensure high speed and performance
- Multi-stage charging mode

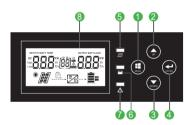
Solar System Connection

- Protection: PV array short circuit , PV reverse polarity, Battery reverse polarity, Over charging , Output short circuit
- DC load support

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.

LCD Display Information



1. MENU: Enter or exit setting mode.

2. UP: Increase the setting data. 8. LCD display

Figure 1 Charge Controller wiring compartment marks

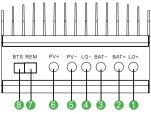
5. PV-: PV array negative terminal

6. PV+: PV array positive terminal

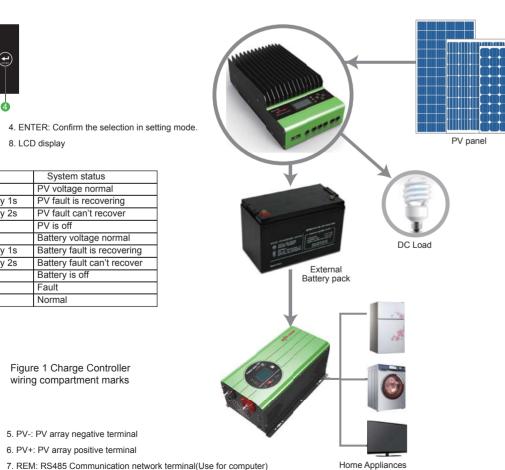
8. BTS: Battery Remote Temperature sensor terminal

3. DOWN: Decrease the setting data.

LED indicator			System status
5. PV	Green	On	PV voltage normal
		Flashing every 1s	PV fault is recovering
		Flashing every 2s	PV fault can't recover
		Off	PV is off
6. BATT	Yellow	On	Battery voltage normal
		Flashing every 1s	Battery fault is recovering
0. DATT		Flashing every 2s	Battery fault can't recover
		Off	Battery is off
7. FAULT	Red	Flashing	Fault
7. TAULT		Off	Normal



1. LO+: The load positive terminal 2. BA+: The battery positive terminal 3. BA-: The battery negative terminal 4. LO-: The load negative terminal



Home Appliances

Specification

	MODEL	PC16-4515A	PC16-6015A		
Nominal Battery System Voltage		12VDC/24VDC/3	12VDC/24VDC/36VDC/48VDC (Auto Detection)		
	PV Open Circuit Voltage	100VDC@12V/ 145VDC @24V/ 145VDC @36V/ 145VDC @48V			
	PV Array MPPT Voltage Range	16VDC~100VDC / 32VDC~130VDC / 48VDC~130VDC / 64VDC~130VDC			
CONTROLLER	Max PV Input Power (12V)	600W	800W		
INPUT	Max PV Input Power (24V)	1200W	1600W		
	Max PV Input Power (36V)	1800W	2400W		
	Max PV Input Power (48V)	2400W	3200W		
BATTERY	Peak Conversion efficiency	98% (MPPT Efficiency 99%)			
	Max Charging Current	45 amps continuous	60 amps continuous		
	Absorption Voltage	12.5VDC/25.0VDC/37.5VDC/50.0VDC			
	Refloat Voltage	13.7VDC/27.4 VDC/41.4VDC/54.8VDC			
	Float Voltage	14.3VDC/28.6 VDC/42.9VDC/57.4VDC			
	Low Voltage Protection Point	10VDC/20.0 VDC/30.0VDC/40.0VDC			
DC OUTPUT	Output Voltage	10.0VDC~14.5VDC / 20VDC~29.0VDC	10.0VDC~14.5VDC / 20VDC~29.0VDC / 30.0VDC~43.5VDC / 40.0VDC~58.0VDC		
	Max Load Current	45 amps continuous	60 amps continuous		
	Warning for low voltage	10.25VDC/20.5 VDC/30.75VDC/41.0VDC			
	Cut off for low voltage	10.0VDC/20.0 VDC/30.0VDC/40.0VDC			
	Low voltage recovery	11.0VDC/22.0 VDC/33.0VDC/44.0VDC			
GENERAL SPECIFICATION	Radiating mode	Automatic cooling			
DISPLAY & PROTECTION	LED indication	Systematic operation, LV indication, LV protection, over charge protection, loads protection, short circuit protection			
	LCD display	Charge voltage, charge current, voltage of storage battery, capacity of storage battery, output current			
		PV array short circuit, PV reverse polarity			
	Alarm Protections	Battery reverse polarity, Over charging protection			
		Output short circuit protection			
		Low voltage protection for storage battery			
MECHANICAL SPECIFICATIONS	Mounting	Wall mount			
	Machine Dimension(W*H* D)	205*371.7*124.3mm (per pcs)			
	Net Weight(Kg)	6.4	6.45Kg		
	Package Dimension(W*H* D)	462*295*220r	462*295*220mm (1pcs/Carton)		
	Gross Weight(Kg)	8.1Kg			
OTHER	Environmental Rating	Indoor			
	Operation Temperature Range	-25~+55°C			
	Ambient humidity	0~90% relative humidity(non-condensing)			
	Altitude	≤ 3000m			
	Loading(20GP/40GP/40HQ)	5500pcs / 1100	5500pcs / 11000pcs / 13000pcs		

Back Panel



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