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

### **Introduction:**

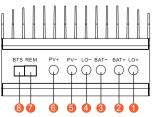
MPPT (Maximum Power Point Tracking)Solar Charge Controller offer an efficient, safe, multi-stage recharging process that prolongs battery life and assures peak performance from a solar array. Each Charge Controller allows customized battery recharging.

### **LCD Display Information**

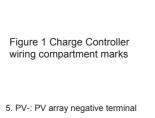


- 1. MENU: Enter or exit setting mode. 4. ENTER: Confirm the selection in setting mode.
- 2. UP: Increase the setting data. 8. LCD display
- 3. DOWN: Decrease the setting data.

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	
		Flashing every 2s	Battery fault can't recover	
		Off	Battery is off	
7. FAULT	Red	Flashing	Fault	
		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

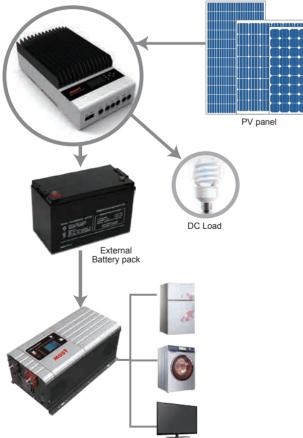


6. PV+: PV array positive terminal

7. REM: RS485 Communication network terminal(Use for computer)

8. BTS: Battery Remote Temperature sensor terminal

## **Solar System Connection**



Home Appliances

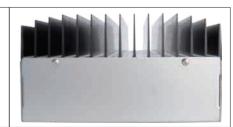
# **Specification**

MODEL		PC16-4515A	PC16-6015A	
Nominal Battery System Voltage		12VDC/24VDC/48VDC (Auto Detection)		
	PV Open Circuit Voltage	100VDC@12V/ 145VDC @24V/ 145VDC @48V		
	PV Array MPPT Voltage Range	16VDC~100VDC / 32VDC~130VDC / 64VDC~130VDC		
CONTROLLER	Max PV Input Power (12V)	600W 800W		
INPUT	Max PV Input Power (24V)	1200W	1600W	
	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/50.0VDC		
	Refloat Voltage	13.7VDC/27.4 VDC/54.8VDC		
	Float Voltage	14.3VDC/28.6 VDC/57.4VDC		
	Low Voltage Protection Point	10VDC/20.0 VDC/40.0VDC		
	Output Voltage	10.0VDC~14.5VDC / 20VDC~29.0VDC / 40.0VDC~58.0VDC		
	Max Load Current	45 amps continuous	60 amps continuous	
DC OUTPUT	Warning for low voltage	10.25VDC/20.5 VDC/41.0VDC		
	Cut off for low voltage	10.0VDC/20.0 VDC/40.0VDC		
	Low voltage recovery	11.0VDC/22.0 VDC/44.0VDC		
GENERAL SPECIFICATION	Radiating mode	Automatic cooling		
	LED indication	Systematic operation, LV indication, LV protection, over charge protection, loads protection, short circuit protection		
DISPLAY	LCD display	Charge voltage, charge current, voltage of storage battery, capacity of storage battery, output current		
&		PV array short circuit, PV reverse polarity		
PROTECTION	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)	6.45Kg		
	Package Dimension(W*H* D)	462*295*220mm (1pcs/Carton)		
	Gross Weight(Kg)	8.1Kg		
OTHER	Environmental Rating	Indoor		
		-25~+55°C		
OTHER	Operation Temperature Range	-25~	+55°C	
OTHER	Operation Temperature Range Ambient humidity		·+55°C idity(non-condensing)	
OTHER		0~90% relative humi		

<sup>\*</sup> Product specifications are subject to change without further notice.

#### **Back Panel**





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