



PC1600A Series (20/30/40A)

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

Selection Guide

MODEL		PC16-2015A	PC16-3015A	PC16-4015A
Nominal Battery System Voltage		12VDC/24VDC (Auto Detection)		
CONTROLLER INPUT	PV Open Circuit Voltage	100VDC@12V/145VDC @24V		
	PV Array MPPT Voltage Range	16VDC~100VDC / 32VDC~130VDC		
	Max PV Input Power(12V)	300W	450W	600W
	Max PV Input Power(24V)	600W	900W	1200W
BATTERY	Absorption Voltage	12.5VDC / 25.0VDC		
	Refloat Voltage	13.7VDC / 27.4VDC		
	Float Voltage	14.3VDC / 28.6VDC		
	Low Voltage Protection Point	10.0VDC / 20.0VDC		
DC OUTPUT	Output Voltage	10.0~14.5VDC / 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	10.25VDC / 20.5VDC		
	Low Voltage cutoff	10.0VDC / 20.0 VDC		
Low Voltage Recovery	11.0VDC / 22.0VDC			
GENERAL SPECIFICATION	Radiating Mode	Automatic cooling		
DISPLAY & PROTECTION	LED Indication	Systematic operation, LV indication, LV protection, Over charge protection Loads protection, Short circuit protection		
	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 protection		
		Output short circuit protection		
Low voltage protection for storage battery				
MECHANICAL SPECIFICATIONS	Mounting	Wall mount		
	Machine Dimension(W*H*D)	154*236*88mm (color box / pcs)		
	Gross Wight (kg)(per pcs)	2.5kg		
	Package Dimension (W*H*D)	610*308*230mm (4PCS/Cartron)		
	Gross Weight (kg)(per carton)	10.8kg	13.4kg	13.4kg
OTHER	Environmental Rating	Indoor		
	Operation Temperature Range	-25°C ~ +55°C		
	Loading (20GP/40GP/40HQ)	2500pcs / 5000pcs / 5800pcs		



(100A)



(60A/80A)

PC1800F Series (60A/80A/100A)

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

Selection Guide

MODEL		PC18-6015F		PC18-8015F		PC18-10015F	
Nominal Battery System Voltage		12V/24V/48VDC (Auto detection); 36V (Setting)					
CONTROLLER INPUT	Battery Voltage	12V	24V	36V	48V	48V	
	Maximum Solar Input Voltage	100V		145V			
	PV Array MPPT Voltage Range	15~95V	30~130V	45~130V	60~130V	60~130V	
	Maximum Input Power	12Volt-940W 24Volt-1880W 36Volt-2820W 48Volt-3760W		12Volt-1250W 24Volt-2500W 36Volt-3750W 48Volt-5000W		12Volt-1550W 24Volt-3100W 36Volt-4650W 48Volt-6200W	
BATTERY	Charging Set Points	Absorption Stage			Float Stage		
	Flooded Battery	14.2V/28.4V/42.6V/56.8V			13.7V/27.4V/41.1V/54.8V		
	AGM (Default)	14.4V/28.8V/43.2V/57.6V			13.7V/27.4V/41.1V/54.8V		
	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%)					
	Max Charging Current	60amps continuous @ 40°C ambient		80amps continuous @ 40°C ambient		100amps 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)				175*82.9*257.1	
	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					