



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					