

MEPC1600A Series MPPT Solar Charge Controller

45/60A MPPT solar charge controller; PV input:145V max ;12V/24V/36V/48V auto work ;MPPT efficiency>99% ,peak conversion efficiency>98% .

■ Product Model:

- MEPC1600A Series MEPC16-4515A
- MEPC1600A Series MEPC16-6015A



- 45/60A MPPT solar charge controller
- PV input:145V max
- 12V/24V/36V/48V auto work
- MPPT efficiency>99% ,peak conversion efficiency>98%
- DSP processors architecture ensure high speed and performance
- Four-stages charging mode
- Protection: PV array short circuit, PV reverse polarity, battery reverse polarity, over charging, output short circuit

PC1600 is an advanced Maximum Power Point Tracking (MPPT) controller for off-grid photovoltaic (PV) systems .The controller features a smart tracking algorithm that maximizes the energy harvest from the PV by rapidly finding the solar array peak power point in all the weather condition. The controller provides higher efficiency up to 98% with lower power loss.

Specifications

Model		MEPC16-4515A	MEPC16-6015A
Default Battery System Voltage		12V/24V/36V/48VDC (adjustable)	
CONTROLLER INPUT	PV Open Circuit Voltage Range	145VDC	
	Max PV Input Power(12V)	600W	800W
	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	45amps continuous	60 amps continuous
	Absorption Voltage	13.5VDC/27.0VDC/40.5VDC/54VDC	
	Refloat Voltage	13.7VDC/27.4VDC/41.4VDC/54.8VDC	
	Float Voltage	14.3VDC/28.6VDC/42.9VDC/57.4VDC	
	Low Voltage Protection Point	10.5VDC/21.0VDC/31.5VDC/42VDC	

DC OUTPUT	Output Voltage	11.0-14.3VDC/22-28.6VDC/33-42.9VDC/44-57.4VDC	
	Max Load Current	45amps continuous	60 amps continuous
	Warning for low voltage	11.5VDC/23.0VDC/34.5VDC/46VDC	
	Cutoff for low voltage	10.5VDC/21.0VDC/31.5VDC/42VDC	
	Low voltage recovery	11.5VDC/23.0VDC/34.5VDC/46VDC	
GENERAL SPECIFICATION	Charge mode	MPPT, PWM, constant current-constant voltage, function of automatic protection for storage battery	
	Radiating mode	Automatic cooling	
	Working mode	Four stage: Absorption CC, Absorption CV, Float CC, Float CV	
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	
	Alarm Protections	PV array short circuit, PV reverser polarity	
		Battery reverse polarity, Over charging protection	
		Output short circuit protection	
Low voltage protection for storage battery			
MECHANICAL SPECIFICATIONS	Mounting	Wall mount	
	W*H*D(mm)/G.W(kg)	205*372*123mm/6kg	
OTHER	Environmental Rating	Indoor	
	Operation Temperature Range	-25~55°C	
	Ambient humidity	0~90% relative humidity(non-condensing)	
	Altitude	≤3000m	