

FUNCTIONS FOR ELECTRIC PROTECTION

- Battery low voltage protection
- Solar overload protection
- Short circuit protection
- High voltage protection
- High temperature protection
- Automatic error protection
- Current limit protection



OPERATION:


SIMPLE
MENU DRIVEN
OPERATION


PROGRAMMING
BY KEY BUTTONS


MANUAL LOAD
SWITCH

CHARACTERISTICS

- Latest technology high efficiency MPPT for increased solar charging current
- 4 battery charging stages
- Aluminum heat sink; for charge controller heat dissipation
- DC Load output
- Battery temperature sensor
- High tech LCD display with user friendly interface for easy operating
- Suitable for the following battery types: GEL, Flooded, Sealed, Flooded and Latium

SYSTEM TERMINALS

- Terminal for RS-485 communication port
- Solar Positive Terminal: Power connection for solar(+)
- Solar Negative Terminal: Power connection for solar (-)
- Battery Positive Terminal: Power connection for battery(+)
- Battery Negative Terminal: Power connection for battery (-)

SPECIFICATION

Model	HPCC-MPPT-40A-F		HPCC-MPPT-60A-F	
Solar System Voltage	12V/24V/36V/48V			
Electrical				
PV operating voltage	15~150Vdc@12V 34~150Vdc@24V 50~150Vdc@36V 60~150Vdc@48V			
Max. PV open circuit voltage	150Vdc			
Rated PV input	12V 500W 24V 1000W 36V 1500W 48V 2000W		12V 800W 24V 1700W 36V 2400W 48V 3400W	
Max. charging current	40A		60A	
Max. DC load current	40A		60A	
Self-Consumption	<2W			
Conversion Efficiency	97.5%		98%	
Protection	Overload, short circuit, high voltage, high temperature protection			
Battery charging				
Battery Type	Gel, Sealed, AGM, Flooded, Lithium, User define			
Charging Algorithm	4-stage: Bulk, Absorption, Float, Equalize			
Bulk charge voltage	Sealed:14.4V AGM Gel:14.2V Flooded:14.6V User define:10-15V			
Float charge voltage	Sealed/Gel/AGM:13.7V Flooded:13.6V User define :10-15V			
Equalize charge voltage	Sealed:14.6V AGM:14.8V Flooded:14.8V User define :10-15V			
Low voltage reconnect voltage	12.5V			
Low voltage disconnect voltage	10.5V (10.5~12.5V Adjustable)			
Temperature compensation	-5mVc/2v with BTS (optional)			
Communication				
Communication Port	RS485			
Mechanical				
Net weight	2KG		2KG	
Gross weight	2.3KG		2.3KG	
Dimensions	230*180*82		230*180*82	
Packing box	293*255*168		293*255*168	
Cooling	Fancooling			
Enclosure	IP21			
Environment				
Ambient Temperature	-25~60c (Derating from 45c)			
Storage Temperature	-40c ~+80c			
Humidity	100% non-condensing			