

Mppt Solar Charge Controller Master Series 12/24/36/48Vdc 80amp - 100Amp

Key Features

- 3.12V/24V/48V battery system automatic recognition
- 4.Maximum PV input voltage up to DC150V, 300Vdc for option
5. Controllers can be connected in Unlimited parallels
- 6.Memory function, to save the setting, date, time, generating capacity etc.
- 7.Charge mode: three stages (fast charge ,constant charge ,floating charge). To extend the life span of the battery
- 7.Discharge mode: ON/OFF mode, double time control mode, PV voltage control mode, PV voltage+time delay mode etc.
8. Recommended battery types: sealed lead acid, vented, gel, NiCd battery. Other types of the batteries can be defined, such as lithium battery etc.
- 9.Most information could be provide by LCD and LED like: model no.,PV input voltage,battery type,battery voltage,charging current,charging power,working status and so on. Customer's information like company name,website and logo can be added to Solar Eagle software.
- 10.RS232 and LAN communication port. IP and Gate address could be defined by the users and it can be used all around the world. And communication protocol can be provided to help customer manage all information.
- 11.Provide professional upper computer software, it could show work status and set parameters of the discharge system.
- 12.With intelligent design, CE,ROHS,FCC certifications approved

Technical Specification

Master series		80A	100A	
Charge Mode	Maximum Power Point Tracking			
Method	3 stages: fast charge(MPPT),constant voltage, floating charge			
System Type	DC12V/24V/36V/48V SYS	Automatic recognition		
Soft Start Time		≤10S		
Conversion Efficiency		≥96.5% ≤99%		
PV Modules Utilization Rate		≥99%		
12V/24V/36V/48V system recognize batteries Voltage Range		DC9V~15V / DC18V~28V / DC32V~40V / DC42V~60V		
Error system		The battery voltage is not in above range when the controller is switched on		
PV Input Characteristics				
MPPT Working Voltage and Range	DC12V/24V/36V/48V SYS	DC16V~DC150V / DC30V~DC150V / DC45V~DC150V / DC60V~DC150V		
Low Voltage Input Protection Point		DC22V / DC34V / DC50V / DC65V		
Input Overvoltage Protection Point		DC150V		
Low Voltage Input Recovery Point		DC145V		
Max. PV Power		1136W / 2272W / 3408W /4544W	1420W /2840W /4260W /5680W	
Discharge characteristic				
Selectable Battery	DC12V/24V/36V/48V SYS	Sealed lead acid, vented		
Types (Default type is GEL battery)		Gel, NiCd battery (Other types of the batteries also can be defined)		
Charge mode		constant current-constant voltage-floating charge		
Constant Voltage		Please check the charge voltage according to the battery type form.		
Floating Charge Voltage				
Rate charge current		80A	100A	
Current-limiting Protection		85A	105A	
Temperature Factor		±0.02%/°C		
Temperature Compensation		14.2V- (The highest temperature-25°C) *0.3		
Output Ripples(peak)		200mV		
Charger voltage accuracy	≤±1.5%			
Discharge characteristic				
Setting Control	Controller or PC software			
Max discharge current	DC12V/24V/36V/48V SYS	100A		
Discharge protection		fuse		
Double-time control		On in morning /off in morning / On in night /off in night		
ON / OFF mode		ON / OFF		
PV voltage control		PV voltage on, PV voltage off		
PV voltage / time delay control		PV voltage on, time delay off		
Control ON/OFF mode				
Discharge voltage protection		Set by user Output off when it under (exceed) setting voltage;		
Communication Features				
RS232 communication		DC12V/24V/36V/48V SYS	Chose COM communication port	
LAN communication	Set IP and Gate address for controller and solar eagle ; Then chose TCP communication			
Protection Function				
Input Low Voltage Protection	Check the input characteristics			
Input Overvoltage Protection	Check the input characteristics			
Temperature Protection	95°C			
Temperature rise protection	Above 85 °C,decrease the output power, decrease 3A per			

*Specifications are subject to change without prior notice

