Chinafactory 12V/24V/48V Automatic MPPT solar charge controller 60a











Core properties of <u>mppt charger controller</u>

- 1. Conversion efficiency 95%-99%, take most from solar panels
- 2. Charge for all kinds of batteries, 3 charge stage to protect battery.
- 3. All kinds of battery are available .
- 4. commucation port :RS232.
- 5. Software to monitor 100pcs equipments at the same time on one screen on acomputer.



Parameter of mppt charger controller

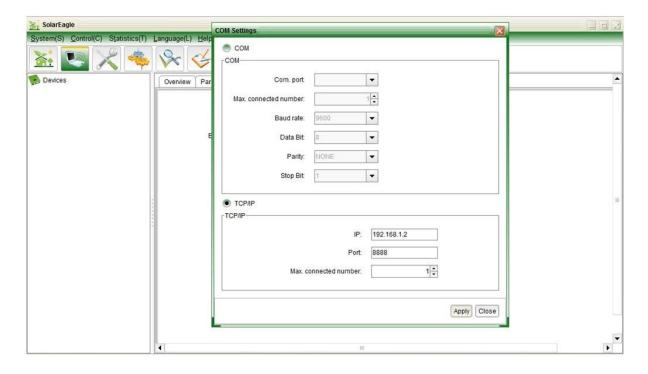
Model: I-P-SMART1	-DC12V/24V/48V-series	40A	50A	60A		
Charge Mode	Maximum Power Point Tracking					
Method	3 stages: fast charge(MPPT),constant voltage,floating charge					
System Type	DC12V/24V/48V	Automatic recognition				
System Voltage	12V system	DC9V~DC15V				
	24V system	DC18V~DC30V				
	48Vsystem	DC36V~DC60V				
Soft Start Time	12V/24V/48Vsystem	≤10S				
Dynamic Response Recovery Time	12V/24V/48Vsystem	500us				
Conversion Efficiency	12V/24V/48Vsystem	≥96.5%,≤99%				
PV Modules Utilization Rate	12V/24V/48Vsystem	≥99%				
Input Characteristic	CS					
MPPT Working Voltage and Range	12V system	DC18V~DC1				
	24V system	DC34~DC150V				
	48V system	DC65~DC150V				
Low Voltage Input Protection Point	12V system	DC16V				
	24V system	DC30V				
	48V system	DC60V				
Low Voltage Input	12V system	DC22V				
Recovery Point	24V system	DC34V				
	48V system	DC65V				
Max DC Voltage	12V/24V/48V system	DC160V				
Input Overvoltage Protection Point	12V/24V/48V system	DC150				
Input Overvoltage Recovery Point	12V/24V/48V system	DC145V				
Max. PV Power	12V system	570W	700W	900W		
	24V system	1130W	1400W	1700W		
	48V system	2270W	2800W	3400W		

Output Characteristics							
battery)	12V/24V/48Vsystem	Sealed lead acid, vented, Gel, NiCd battery (Other types of the batteries also can be defined)					
	12V/24V/48V system	Please check the charge voltage according to					
Floating Charge Voltage	12V/24V/48V system	the battery type form.					
Over Charge Protection Voltage	12V system	14.6V					
	24V system	29.2V					
	48V system	58.4V					
Rated Output Current	12V/24V/48V system	40A	50A	60A			
Current-limiting Protection	12V/24V/48V system	44A	55A	66A			
Temperature Factor	12V/24V/48V system	±0.02%/°C					
Temperature Compensation	12V/24V/48V system	14.2V-(The highest temperature-25°C)*0.3					
Output Ripples(peak)	12V/24V/48V system	200mV					
Output Voltage Stability Precision	12V/24V/48V system	≤±1.5%					
Software Control through PC(communication port)		RS232 (matching) or LAN(optional)					
Protection							
Input Low Voltage		Check the input characteristics					
Input Overvoltage Protection		Check the input characteristics					
Input Polarity Reversal Protection		yes					
Output Overvoltage Protection		Check the output characteristics					
Output Polarity Reversal Protection		yes					
Short-circuit Protection		Recover after eliminating the Short-circuit fault,no problem for long term Short-circuit					
Temperature Protection		95°Č					
Temperature protection		Above 85°C,decrease the output power,decrease 3A per degree.					

Product Parts

Quantity	Description	
1 unit	Charge controller	
2 pc	Terminals	
2 pc	Gallow pulley	
	(For install the controller on the wall)	
4 set	Screw	
	(For install the controller on the wall)	
1 pc	232 turn to RJ45 communication cable	
1 рс	User manual	
1 рс	Temperature sensing wire	
2 pc	Fuse wire	
	1 unit 2 pc 2 pc 4 set 1 pc 1 pc 1 pc	

Upper Computer Software and Test Software





Service and Contact

1. Warranty

1.1 Two years warranty, lifelong technical assistance.

2. Conditions and Terms

- 2.1 The warranty starts from the delivery date from our factory.
- 2.2 During the warranty, any defective product will get repaired or replaced for free.
- 2.3 The warranty is unavailable for those products which are broken by the violence or the carelessness or

repaired or altered without the authorization.

3. Lead Time

- 3.1 Sample orders: 2-5 working days.
- 3.2 Mass orders: 25 working days at most.

4. Shipment

- 4.1 Samples By EMS,DHL,FedEx or other express.
- 4.2 Mass orders by our forwarding agent(by air or by sea).
- 4.3 Mass orders by your own forwarding agent.