China factory 12V/24V/48V Automatic MPPT solar chargecontroller 40a











Core properties of mppt charger controller

- 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.

Software to monitor 100pcs controller pictures show:



Parameter of mppt charger controller

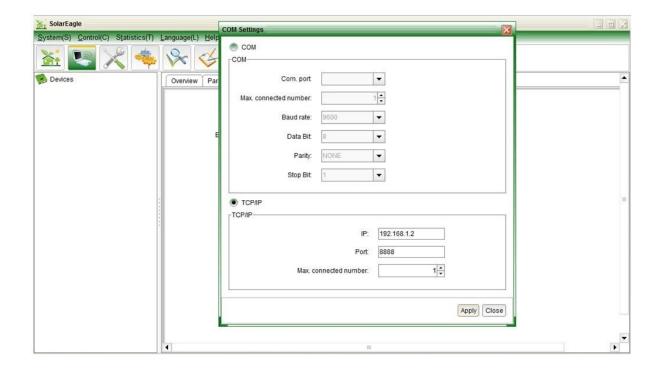
Parameter of mpp				lee .	
Model: I-P-SMART1 -DC12\		40A	<u>50A</u>	60A	
Charge Mode	Maximum Power Point Tracki				
Method	3 stages: fast charge(MPPT),c				
System Type	DC12V/24V/48V	Automatic recognition			
	12V system	DC9V~DC15V			
System Voltage	24V system	DC18V~DC30V			
	48Vsystem	DC36V~DC60V			
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	·	250.570,35570			
Rate	12V/24V/48Vsystem	≥99%			
Input Characteristics					
	12V system	DC18V~DC1	50V		
MPPT Working Voltage	24V system	DC34~DC15			
and Range	48V system	DC65~DC15			
		DC16V	UV		
Low Voltage Input	12V system				
Protection Point	24V system	DC30V			
	48V system	DC60V			
Low Voltage Input	12V system	DC22V			
Recovery Point	24V system	DC34V			
recevery rome	48V system	DC65V			
Max DC Voltage	12V/24V/48V system	DC160V			
Input Overvoltage	12)//24)//40)/ evetere	DC150			
Protection Point	12V/24V/48V system	DC150			
Input Overvoltage	10//04//40//	D C 1 4 E) /			
Recovery Point	12V/24V/48V system	DC145V			
,	12V system	570W	700W	900W	
Max. PV Power	24V system	1130W	1400W	1700W	
l laxi i v i olive.	48V system	2270W	2800W	3400W	
Output Characteristics	+ov system	22700	2000**	D-10011	
Selectable Battery Types					
(Default type is GEL	12V/24V/48Vsystem		acid, vented, Gel, NiCd		
battery)	12V/24V/40VSyStem	(Other types of the batteries also can be defined)			
Constant Voltage	12\//24\//49\/ systom	Diagon alagai		and the second second	
	12V/24V/48V system	form.	the charge voltage at	ccording to the battery type	
Floating Charge Voltage	12V/24V/48V system				
Over Charge Protection	12V system	14.6V			
Voltage	24V system	29.2V			
	48V system	IEO 4\/			
Rated Output Current	1 ,	58.4V			
	12V/24V/48V system	40A	50A	60A	
•	12V/24V/48V system	40A			
Current-limiting Protection	12V/24V/48V system		50A 55A	60A 66A	
·	12V/24V/48V system	40A			
Current-limiting Protection	12V/24V/48V system 12V/24V/48V system 12V/24V/48V system	40A 44A ±0.02%/°C	55A	66A	
Current-limiting Protection Temperature Factor	12V/24V/48V system 12V/24V/48V system	40A 44A ±0.02%/°C		66A	
Current-limiting Protection Temperature Factor Temperature	12V/24V/48V system 12V/24V/48V system 12V/24V/48V system	40A 44A ±0.02%/°C	55A	66A	
Current-limiting Protection Temperature Factor Temperature Compensation Output Ripples(peak)	12V/24V/48V system 12V/24V/48V system 12V/24V/48V system 12V/24V/48V system 12V/24V/48V system	40A 44A ±0.02%/°C 14.2V-(The h	55A	66A	
Current-limiting Protection Temperature Factor Temperature Compensation Output Ripples(peak) Output Voltage Stability	12V/24V/48V system 12V/24V/48V system 12V/24V/48V system 12V/24V/48V system	40A 44A ±0.02%/°C 14.2V-(The h	55A	66A	
Current-limiting Protection Temperature Factor Temperature Compensation Output Ripples(peak) Output Voltage Stability Precision	12V/24V/48V system 12V/24V/48V system 12V/24V/48V system 12V/24V/48V system 12V/24V/48V system	40A 44A ±0.02%/°C 14.2V-(The h	55A	66A	
Current-limiting Protection Temperature Factor Temperature Compensation Output Ripples(peak) Output Voltage Stability Precision Display	12V/24V/48V system 12V/24V/48V system 12V/24V/48V system 12V/24V/48V system 12V/24V/48V system	40A 44A ±0.02%/°C 14.2V-(The h 200mV ≤±1.5%	55A ighest temperature-25	66A 5°C)*0.3	
Current-limiting Protection Temperature Factor Temperature Compensation Output Ripples(peak) Output Voltage Stability Precision	12V/24V/48V system 12V/24V/48V system 12V/24V/48V system 12V/24V/48V system 12V/24V/48V system	40A 44A ±0.02%/°C 14.2V-(The h 200mV ≤±1.5%	ighest temperature-25	66A 5°C)*0.3	
Current-limiting Protection Temperature Factor Temperature Compensation Output Ripples(peak) Output Voltage Stability Precision Display	12V/24V/48V system 12V/24V/48V system 12V/24V/48V system 12V/24V/48V system 12V/24V/48V system	40A 44A ±0.02%/°C 14.2V-(The h 200mV ≤±1.5%	55A ighest temperature-25	66A 5°C)*0.3	
Current-limiting Protection Temperature Factor Temperature Compensation Output Ripples(peak) Output Voltage Stability Precision Display LCD display	12V/24V/48V system 12V/24V/48V system 12V/24V/48V system 12V/24V/48V system 12V/24V/48V system	40A 44A ±0.02%/°C 14.2V-(The h 200mV ≤±1.5% Input,output (check the LC) 3 LEDs indica	jghest temperature-25 parameter and output CD display instruction) ates:Fault indicate ligh	power etc	
Current-limiting Protection Temperature Factor Temperature Compensation Output Ripples(peak) Output Voltage Stability Precision Display	12V/24V/48V system 12V/24V/48V system 12V/24V/48V system 12V/24V/48V system 12V/24V/48V system	40A 44A ±0.02%/°C 14.2V-(The h 200mV ≤±1.5% Input,output (check the LC) 3 LEDs indica	jghest temperature-25 parameter and output CD display instruction)	power etc	
Current-limiting Protection Temperature Factor Temperature Compensation Output Ripples(peak) Output Voltage Stability Precision Display LCD display	12V/24V/48V system 12V/24V/48V system 12V/24V/48V system 12V/24V/48V system 12V/24V/48V system 12V/24V/48V system	40A 44A ±0.02%/°C 14.2V-(The h 200mV ≤±1.5% Input,output (check the LC) 3 LEDs indicates power source	jghest temperature-25 parameter and output CD display instruction) ates:Fault indicate light indicate light(check t	66A 5°C)*0.3 power etc t,charge indicate light, he LED instruction)	
Current-limiting Protection Temperature Factor Temperature Compensation Output Ripples(peak) Output Voltage Stability Precision Display LCD display LED display Software Control through F	12V/24V/48V system 12V/24V/48V system 12V/24V/48V system 12V/24V/48V system 12V/24V/48V system 12V/24V/48V system	40A 44A ±0.02%/°C 14.2V-(The h 200mV ≤±1.5% Input,output (check the LC) 3 LEDs indicates power source	jghest temperature-25 parameter and output CD display instruction) ates:Fault indicate ligh	66A 5°C)*0.3 power etc t,charge indicate light, he LED instruction)	
Current-limiting Protection Temperature Factor Temperature Compensation Output Ripples(peak) Output Voltage Stability Precision Display LCD display LED display Software Control through F	12V/24V/48V system	40A 44A ±0.02%/°C 14.2V-(The h 200mV ≤±1.5% Input,output (check the LC 3 LEDs indica power source RS232 (matc	parameter and output CD display instruction) ates:Fault indicate light e indicate light(check thing) or LAN(optional)	66A 5°C)*0.3 power etc t,charge indicate light, he LED instruction)	
Current-limiting Protection Temperature Factor Temperature Compensation Output Ripples(peak) Output Voltage Stability Precision Display LCD display LED display Software Control through F Protection Input Low Voltage Protecti	12V/24V/48V system	40A 44A ±0.02%/°C 14.2V-(The h 200mV ≤±1.5% Input,output (check the LG 3 LEDs indicate power source RS232 (matc) Check the injection of the control	parameter and output CD display instruction) ates:Fault indicate light e indicate light(check thing) or LAN(optional) but characteristics	66A 5°C)*0.3 power etc t,charge indicate light, he LED instruction)	
Current-limiting Protection Temperature Factor Temperature Compensation Output Ripples(peak) Output Voltage Stability Precision Display LCD display LED display Software Control through F Protection Input Low Voltage Protecti Input Overvoltage Protecti	12V/24V/48V system	40A 44A ±0.02%/°C 14.2V-(The h 200mV ≤±1.5% Input,output (check the LG 3 LEDs indicate power source RS232 (matc) Check the injection of the control	parameter and output CD display instruction) ates:Fault indicate light e indicate light(check thing) or LAN(optional)	66A 5°C)*0.3 power etc t,charge indicate light, he LED instruction)	
Current-limiting Protection Temperature Factor Temperature Compensation Output Ripples(peak) Output Voltage Stability Precision Display LCD display LED display Software Control through F Protection Input Low Voltage Protecti Input Overvoltage Protecti Input Polarity Reversal Pro	12V/24V/48V system PC(communication port) ion ion otection	40A 44A ±0.02%/°C 14.2V-(The h 200mV ≤±1.5% Input,output (check the LG 3 LEDs indicate power source RS232 (matc) Check the injection of the control	parameter and output CD display instruction) ates:Fault indicate light e indicate light(check thing) or LAN(optional) but characteristics	66A 5°C)*0.3 power etc t,charge indicate light, he LED instruction)	
Current-limiting Protection Temperature Factor Temperature Compensation Output Ripples(peak) Output Voltage Stability Precision Display LCD display	12V/24V/48V system PC(communication port) ion ion otection	40A 44A ±0.02%/°C 14.2V-(The h 200mV ≤±1.5% Input,output (check the LG 3 LEDs indicates power source RS232 (matched) Check the injuges	parameter and output CD display instruction) ates:Fault indicate light e indicate light(check thing) or LAN(optional) but characteristics	66A 5°C)*0.3 power etc t,charge indicate light, he LED instruction)	
Current-limiting Protection Temperature Factor Temperature Compensation Output Ripples(peak) Output Voltage Stability Precision Display LCD display LED display Software Control through Ferotection Input Low Voltage Protection Input Overvoltage Protection Input Polarity Reversal Pro	12V/24V/48V system PC(communication port) ion ion otection ction	40A 44A ±0.02%/°C 14.2V-(The h 200mV ≤±1.5% Input,output (check the LG 3 LEDs indicates power source RS232 (matched) Check the injuges	parameter and output CD display instruction) ates:Fault indicate light indicate light indicate light check thing) or LAN(optional) out characteristics out characteristics	66A 5°C)*0.3 power etc t,charge indicate light, he LED instruction)	

Short-circuit Protection	Recover after eliminating the Short-circuit fault,no problem for long term Short-circuit		
Temperature Protection	95℃		
Temperature protection	Above 85°C, decrease the output power, decrease 3A per degree.		
Other Parameters			
Noise	≤40dB		
Thermal methods	Forced air cooling, fan speed rate regulated by temperature, when inner temperature is too low, fan ran slowly or stop; when controller stop working, fan also stop ran.		
Components	World brand raw materials. Compliance with EU standards. All rated temperature of electrolytic capacitors not less than 105°C		
Smell	No peculiar smell and and toxic substances.		
Environment Protection	Meet the 2002/95/EC,no cadmium hydride and fluoride		
Physical			
Measurement DxWxH(mm)	270*185*90		
N.G(kg)	3		
G.N(kg)	3.6		
Color	Blue/Green (optional)		
Safety	CE,RoHS, PSE,FCC		
EMC	EN61000		
Type of Mechanical Protection	IP21		

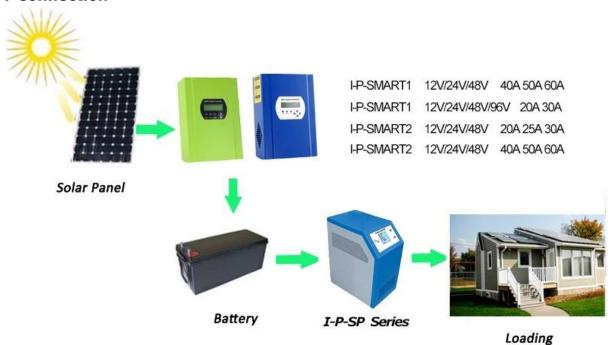
Product Parts

NO.	Quantity	Description	
1	1 unit	Charge controller	
2	2 pc	Terminals	
3	2 pc	Gallow pulley	
		(For install the controller on the wall)	
4	4 set	Screw	
		(For install the controller on the wall)	
5	1 pc	232 turn to RJ45 communication cable	
6	1 pc	User manual	
7	1 pc	Temperature sensing wire	
8	2 pc	Fuse wire	

UpperComputer Software and Test Software



MPPT Connection



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 replacedfor 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: 1~5 working days.
- 3.2 Mass orders: Depend on Quantity

4. Shipment

- 4.1 Samples By EMS, DHL, FedEx TNT 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.