China factory 12V/24V/48V Automatic <u>MPPT solar chargecontroller 15A 20A 25A</u> <u>30A 40A 50A 60a</u>









#### 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.



# 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	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	12V/24V/48Vsystem				
Utilization Rate	12 V/24 V/40 V System	≥99%			
Input Characteristics		-			
	12V system	DC18V~DC150V			
MPPT Working Voltage and Range	24V system	DC34~DC150V			
	48V system	DC65~DC150V			
Low Voltage Input Protection Point	12V system	DC16V			
	24V system	DC30V			
	48V system	DC60V			
	12V system	DC22V			
Low Voltage Input	24V system	DC34V			
Recovery Point	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			
	12V system	570W	700W	900W	
Max. PV Power	24V system	1130W	1400W	1700W	
	48V system	2270W	2800W	3400W	
Output Characteristics					
Selectable Battery	-				
Types (Default type is GEL battery)	12V/24V/48Vsystem	Sealed lead acid, vented, Gel, NiCd battery (Other types of the batteries also can be defined)			
Constant Voltage	12V/24V/48V system				
Floating Charge Voltage	12V/24V/48V system	Please check the charge voltage according to the battery type form.			
	12V system	14.6V			
Over Charge	24V system	29.2V			
Protection Voltage	48V system	58.4V			
Rated Output Current	,		50A	60A	
Current-limiting Protection	12V/24V/48V system		55A	66A	
	12V/24V/48V system	±0.02%/°C			
Temperature			est temperature-2	5°C)*0 2	
Compensation	12V/24V/48V system			5 C)"0.5	
Output Ripples(peak)	12V/24V/48V system	200mV			
Output Voltage Stability Precision	12V/24V/48V system	≤±1.5%			
Display		h			
		Input,output parameter and output power etc (check the LCD display instruction)			
		3 LEDs indicates:Fault indicate light,charge indicate light,			
		power source indicate light(check the LED instruction)			
	ugh PC(communication port)	RS232 (matching	g) or LAN(optional)		
Protection					
Input Low Voltage Pro	tection	Check the input characteristics			
Input Overvoltage Pro	tection	Check the input characteristics			
Input Polarity Reversa		yes			
Output Overvoltage P		Check the output characteristics			
Output Polarity Rever	sal Protection	yes			
		1-			

Short-circuit Protection		problem for			
Temperature	Protection	95°C	long term Short-circuit		
-			utnut nower decrease		
Temperature	protection	3A per degree.	Above 85°C,decrease the output power,decrease 3A per degree.		
Other Parame	eters				
Noise		≤40dB			
Thermal meth	nods	temperature,when inner te ran slowly or stop;	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		standards. All rated temperature of el less than 105°C	World brand raw materials. Compliance with EU standards. All rated temperature of electrolytic capacitors not		
Smell		No peculiar smell and and	toxic substances.		
Environment	Protection	Meet the 2002/95/EC,no ca fluoride	Meet the 2002/95/EC,no cadmium hydride and fluoride		
Physical		·			
Measurement	t DxWxH(mm)	270*185*90			
N.G(kg)		3	3		
G.N(kg)		3.6	3.6		
Color		Blue/Green (optional)	Blue/Green (optional)		
Safety		CE,RoHS, PSE,FCC			
EMC		EN61000			
Type of Mech	anical Protection	IP21			
Environment		·			
Humidity		0~90%RH ( no condense)	0~90%RH ( no condense)		
Altitude		0~3000m	0~3000m		
Operating Te	mperature	-20°C ~ +40°C	-20°C ~ +40°C		
Storage Temp	perature	-40°C ∼ +75°C			
Atmospheric	Pressure	70~106kPa			
Note: OEM an	d ODMservice are p	ovided. The 36V/72V/96V model also can be	e custom made foryou.		
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			
	1				

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SolarEagle		
System(S) Control(C) Statistics(T) Language(L) Help	COM Settings	
Devices	Com. port.	<b>^</b>
E	Data Bit 8 Parity: NONE Stop Bit 1 TCP/IP TCP/IP	10
	IP: 192.168.1.2 Port: 8888 Max. connected number: 1	
4	(Apply) Close	<b>•</b>

#### **MPPTConnection**



### **Serviceand 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 theviolence 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.