Introduction

This is a <u>solar charge controller 40A ~60A</u> that have automatic max. power point tracking function with high

efficiency that almost $30\%\sim60\%$ higher than traditional charge controller. It also features the functions of system

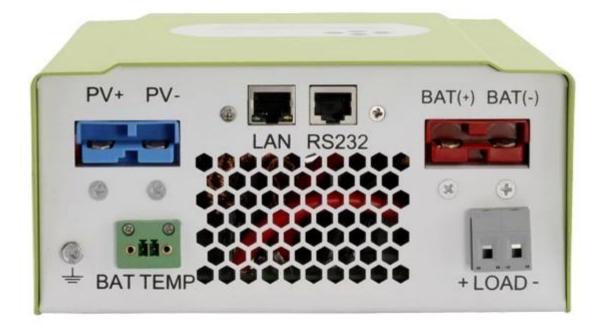
voltage auto recognition, wide rang of PV input ,charge for all kinds of battery,automatic discharge control,RS

232 / LAN communication function and so on. It is very high-end product for solar market with its best partner <u>I-P-TPI2 model Inverter/Charger/UPS.</u>

Application

- 1. Industrial, commercial, household off grid solar energy generation system
- 2. Movable off grid solar energy generation system
- 3. Communication base stations
- 4. New energy education business
- 5. Solar Monitoring System
- 6. Solar Street Lighting System







Feature:

- 1.MPPT charge mode, conversion efficiency upto 99%
- 2.12V/24V/48V system auto recognize;
- 3. Wide range of PV input with max. is DC150V.
- 4. Unlimited parallel connection
- 5.Journal function , Save function set ,Date ,time ,Generating capacity and so on .
- 6.Charge mode: three stages (fast charge ,constant charge ,floating charge) .lt prolongs service life of the batteries .
- 7.Discharge mode: ON/OFF mode, double time control mode,PV voltage control mode ,PV voltage+time delay mode and so on .
- 8.Recommended battery types: sealed lead acid, vented, gel, NiCd battery. Other types of the batteries can also be defined.

- 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. Also customer's information like company name,website and logo can be added into Solar Eagle software.
- 10.RS232 and LAN communication port. IP and Gate address could be user define it satisfy global area. And communication protocol can be provided to help customer manage all information .
- 11. The upper computer software is displayed in 11 languages, it could show work status and set parameters of the discharge system.
- 12. With intelligent design, the device can be upgraded online lifelong.
- 13.Adopting the well-known brand components, the devices can suffer the temperature not less than 105°C. The service life is designed to use for 10 years in theory.
- 14.Compliance with the 2002/95/EC environment protecting demand, doesn't include the Cadmium, hydride and fluoride etc material
- 15.Equipment integrity: controller + CD-ROM(microcomputer software) + communication wire + temperature sensing wire+Anderson terminals;
- 16.CE,ROHS certifications approved.
- 17.2 years warranty. And 3~10 years extended warranty service also can be provided.

Parameter:

Model:I-P-SMART2-40A/50A/60A -series		40A 50A 60A				
Charge Mode	Maximum Power P	oint Tracking				
Method	3 stages: fast charge(MPPT),constant voltage, floating charge					
System Type	DC12V/24V/48V	4V/48V Automatic recognition				
	12V system	DC9V~DC15V				
System Voltage	24V system	DC18V~DC30V				
	48Vsystem	DC36V~DC60V				
Soft Start Time	12V/24V/48Vsyste	<10¢				
Soit Start Time	III)					
Dynamic Response	12V/24V/48Vsyste	500us				
Recovery Time	Im					
Conversion Efficiency	12V/24V/48Vsyste	>06 50/ <000/				
Conversion Entitlency						
PV Modules Utilization Rate	12V/24V/48Vsyste	>99%				
	m	-33 /0				
Input Characteri						
	-,	DC18V~DC150V				
MPPT Working Voltage and Range		DC34~DC150V				
		DC65~DC150V				
	12V system	DC16V				
Low Voltage Input Protection Point		DC30V				
		DC60V				
Low Voltage Input Recovery Point	-,	DC22V				
Low voicage input necessery rount	24V system	DC34V				
	48V system	DC65V				
Max DC Voltage	12V/24V/48V	DC160V				
I-lax DC Voltage	system	DC100V				
Input Overvoltage Protection Point	12V/24V/48V	DC150				
input overvoitage riotection rome	system					
Input Overvoltage Recovery Point	12V/24V/48V	DC145V				
,	system	570W 700W				
Max. PV Power		570W 700W 900W 1130W 1400W 1700W				
Max. PV Power	.,	1130W 1400W 1700W 2270W 2800W 3400W				
Output Characteristics	48V system	2270W 2800W 5400W				
· ·	12)//24)//40)/	Cooled load said vented Col NiCd batton				
Selectable Battery Types (Default type is GEL battery)	12V/24V/48V system	Sealed lead acid, vented, Gel, NiCd battery (Other types of the batteries also can be defined)				
pattery)	,	(Other types of the patteries also can be defined)				
Constant Voltage	12V/24V/48V					
	system 12V/24V/48V	Please check the charge voltage according to the battery type form.				
Floating Charge Voltage	12V/24V/48V system					
	pysiem					

Over Charge Protection Veltage	24V system		29.2V			
Over Charge Protection Voltage	24V system					
	48V system	58.4V	58.4V			
Rated Output Current	12V/24V/48V system	40A	50A	60A		
Current-limiting Protection	12V/24V/48V system	44A	55A	66A		
Rate charge current	12V/24V/48V System	40A	50A	60A		
Temperature Factor	12V/24V/48V system	±0.02%/°C	±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%				
Charge voltage Peak-Peak Ripple	12V/24V/48V System	200mV	200mV			
Charger voltage accuracy	12V/24V/48V System	≤±1.5%	≤±1.5%			
Discharge characteristic	рузсен					
Setting Control	Contro	ller or LAN				
Max discharge current	12V/24V/48V System	40A				
Discharge protection	12V/24V/48V System	fuse 30A*2				
Double-time control	12V/24V/48V System	On in morning	On in morning ,off in morning / On in night ,off in night			
ON / OFF mode	12V/24V/48V System	ON / OFF				
PV voltage control	12V/24V/48V System	PV voltage on□	PV voltage on PV voltage off			
PV voltage / time delay control	12V/24V/48V System	PV voltage on⊡	PV voltage on time delay off			
Discharge voltage protection	12V/24V/48V System	Output off when it under setting voltage; Factory set is 10.5 .(Note : set based on 1 battery)				
Communication Features	рубсен					
		Chose COM communication				
RS232 Communication	12V/24V/48V System	Chose COM cor	nmunication			
RS232 Communication LAN Communication	System 12V/24V/48V			ar eagle ;Then chose TCP communication		
	System			ar eagle ;Then chose TCP communication		
LAN Communication Protection	System 12V/24V/48V	Set IP and Gate		ar eagle ;Then chose TCP communication		
LAN Communication Protection Input Low Voltage Protection Input Overvoltage Protection	System 12V/24V/48V	Set IP and Gate	address for controller and sol	ar eagle ;Then chose TCP communication		
LAN Communication Protection Input Low Voltage Protection	System 12V/24V/48V	Set IP and Gate	address for controller and sol	ar eagle ;Then chose TCP communication		
LAN Communication Protection Input Low Voltage Protection Input Overvoltage Protection	System 12V/24V/48V	Set IP and Gate Check the inpu Check the inpu yes	address for controller and sol	ar eagle ;Then chose TCP communication		
LAN Communication Protection Input Low Voltage Protection Input Overvoltage Protection Input Polarity Reversal Protection	System 12V/24V/48V	Set IP and Gate Check the inpu Check the inpu yes	address for controller and sol t characteristics t characteristics	ar eagle ;Then chose TCP communication		
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LAN Communication Protection Input Low Voltage Protection Input Overvoltage Protection Input Polarity Reversal Protection Output Overvoltage Protection Output Polarity Reversal Protection Short-circuit Protection Temperature Protection Thermal methods	System 12V/24V/48V	Set IP and Gate Check the inpu Check the inpu yes Check the outp yes Recover after e 95°C Above 85°C,dee ≤40dB Forced air cooli fan ran slowly o World brand ra	t characteristics t characteristics t characteristics ut characteristics uliminating the Short-circuit fau crease the output power, decre ng, fan speed rate regulated b	It, no problem for long term Short-circuit lase 3A per degree. y temperature, when inner temperature is too lo		
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12V system

14.6V

Note: OEM and ODM service are provided. The 36V/72V/96V model also can be custom made for you.

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



Upper Computer Software and Test Software



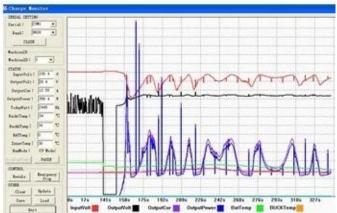


The interface of upper computer software working state

The interface of upper computer software parameter setting state

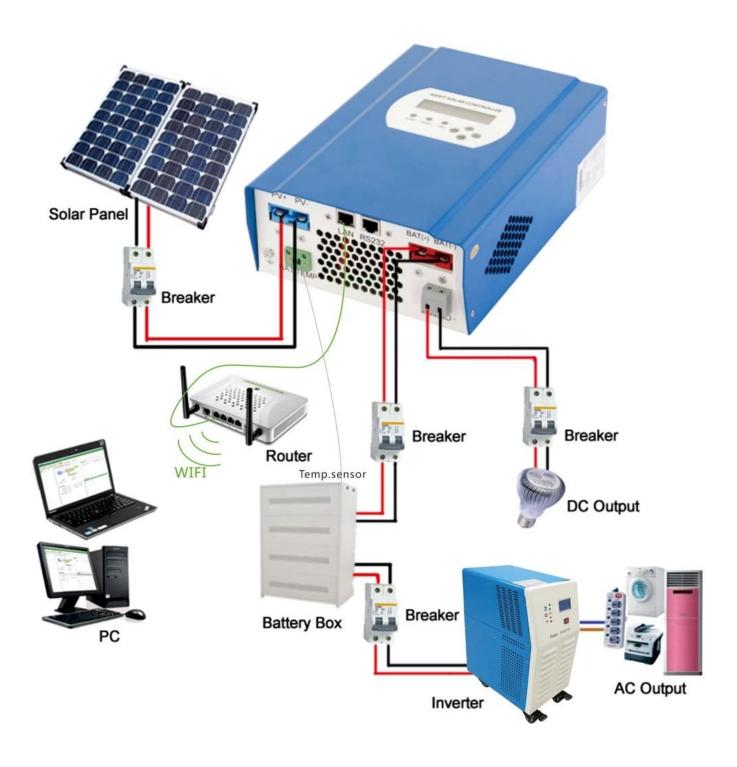


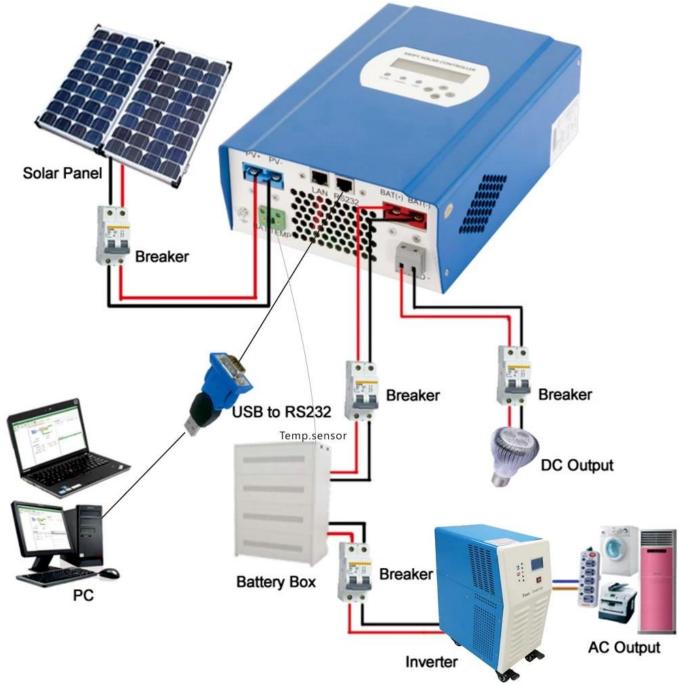
Upper computer software on/off interface and generating capacity record clean interface



The interface of test software working state

MPPT Connection





Service and Contact

1. Warranty

1.2 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 will be delivered from our factory within 5-7 working days.
- 3.2 General orders will be delivered from our factory within 7-15 working days.
- 3.3 Big orders will be delivered from our factory within 25 working days at most.

4. Shipment

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

5. OEM and ODM

5.1 This page shows basic data, we can provide OEM, ODM service for you.