Introduction

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

efficiency that almost 30%~60% 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) .It 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 F					
Method	3 stages: fast char	ge(MPPT),constant	t voltage, floating charge			
System Type		Automatic recogni				
	12V system	DC9V~DC15V				
System Voltage	24V system	DC18V~DC30V				
	48Vsvstem	DC36V~DC60V				
	12V/24V/48Vsyste					
Soft Start Time	m					
Dynamic Response	12V/24V/48Vsyste	- ~ ~				
Recovery Time	m	500us				
	12V/24V/48Vsyste m					
Conversion Efficiency	m	≥96.5%,≤99%				
	12V/24V/48Vsyste	- 000/				
PV Modules Utilization Rate	m	299%				
Input Characteristics						
	12V system	DC18V~DC150V				
MPPT Working Voltage and Range	24V system	DC34~DC150V				
	48V system	DC65~DC150V				
	12V system	DC16V				
Low Voltage Input Protection Point	24V system	DC30V				
	48V system	DC60V				
Level Velterer Januar Deserver Deint	12V system	DC22V				
Low Voltage Input Recovery Point	24V system	DC34V				
	48V system	DC65V				
	12V/24V/48V	Deltent				
Max DC Voltage	system	DC160V				
	12V/24V/48V	DC1F0				
Input Overvoltage Protection Point	system	DC150				
Input Overvoltage Recovery Point	12V/24V/48V	DC145V				
	system	DCI4JV				
	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	12V/24V/48V		vented, Gel, NiCd battery			
battery) system (Other types of the ba		e batteries also can be del	fined)			
Canatant Valtage	12V/24V/48V	Please check the charge voltage according to the battery type form.				
Constant Voltage	system					
Flasting Charge Veltage	12V/24V/48V	Please check the (charge voltage according t	to the battery type form.		
Floating Charge Voltage	system					
	12V system	14.6V				
Over Charge Protection Voltage	24V system	29.2V				
-	48V system	58.4V				
Rated Output Current	12V/24V/48V	40A	50A	60A		
Rated Output Current	system	40A	AUC	OUA		
Current-limiting Protection	12V/24V/48V	44A	55A	66A		
	system	TTM	JJA	UUA		

Rate charge current	12V/24V/48V System	40A	50A		60A
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%			
Charge voltage Peak-Peak Ripple	12V/24V/48V System	200mV			
Charger voltage accuracy	12V/24V/48V System	≤±1.5%			

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

NO.	Quantity	Description
1	1 unit	Charge controller
2	2 pc	Terminals
3	2 рс	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

Parts

Package

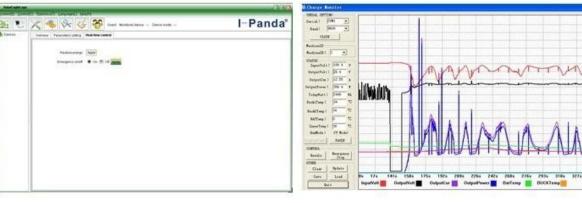
Upper Computer Software and Test Software

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The interface of upper computer software working state

The interface of upper computer software parameter setting state

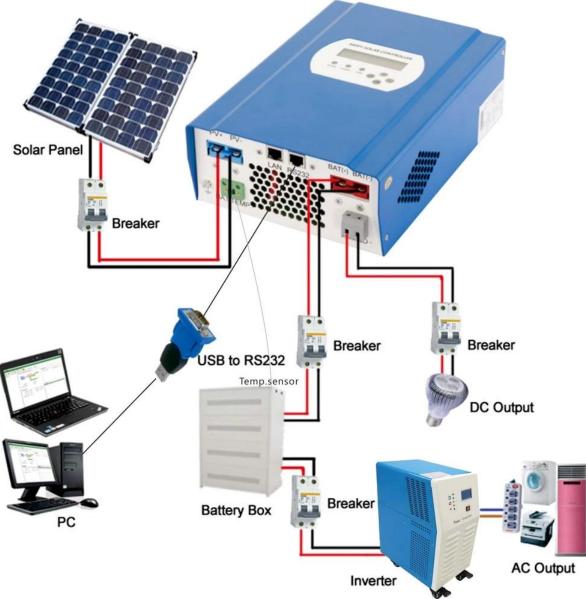


Upper computer software on/off interface and generating capacity record clean interface

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.