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%~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>.

Feature

1.<u>MPPT charge</u> 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.

Parameter

Farameter						
Model:I-P-SMART2-40A/50A/60A -series		40A	50A	60A		
Charge Mode	Maximum Power I					
Method	3 stages: fast char	ge(MPPT),constant vol				
System Type	DC12V/24V/48V	Automatic recognitior	ı			
	12V system	DC9V~DC15V				
System Voltage	24V system	DC18V~DC30V				
	48Vsystem	DC36V~DC60V				
Soft Start Time	12V/24V/48Vsyste m	≤105				
Dynamic Response Recovery Time	12V/24V/48Vsyste m	500us				
Conversion Efficiency	12V/24V/48Vsyste m	290.5%, 599%				
PV Modules Utilization Rate	12V/24V/48Vsyste m	≥99%				
Input Characteristics		r				
	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				
Low Veltage Input Decevery Deint	12V system	DC22V				
Low Voltage Input 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				
	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	Sealed lead acid, ven	ted, Gel, NiCd battery			
battery)	system	(Other types of the ba	atteries also can be defin	ed)		

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Storage Temperature -40°C ~ +75°C						
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	Atmospheric Pressure					

Note: <u>OEM and ODM service</u> 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 рс	Terminals

3	2 pc	Gallow pulley
4	4	(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 рс	Fuse wire



Blue



Green



Upper Computer Software

Parts



Package

Upper Computer Software and Test Software

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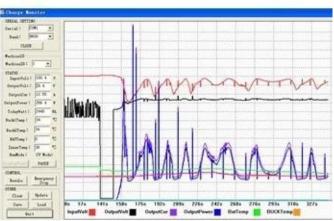
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The interface of upper computer software working state



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

The interface of upper computer software parameter setting state



The interface of test software working state



Certificates <u>ISO2008</u> <u>ISO2004</u>

CE FCC ROHS

Service and Contact

- 1. OEM and ODM orders are provided.
- 2. Power solution consult available based on technical group
- $3.\ 24$ months warranty; $3\ to\ 10\ years$ extended
- 4. Free technical study and discussion on products are provided every year.