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>.







Features

- 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.

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	Discharge characteristic Setting Control Max discharge current Discharge protection Double-time control ON / OFF mode PV voltage control PV voltage / time delay control Discharge voltage protection Communication Features RS232 Communication LAN Communication Input Low Voltage Protection Input Overvoltage Protection Input Polarity Reversal Protection Output Overvoltage Protection Output Polarity Reversal Protection Short-circuit Protection Temperature Protection Temperature Protection Temperature Protection Other Parameters Noise Thermal methods Components Smell Environment Protection Physical Measurement DxWxH (mm) N.G(kg) G.N(kg) Color Safety EMC Type of Mechanical Protection Environment	Controller or 12V/24V/48V System	LAN 40A fuse 30A*2 On in morning ,off in morning / On in night ,off in night ON / OFF PV voltage on[PV voltage off PV voltage on[TV voltage off PV voltage on [TV voltage off PV voltage on[TV voltage off PV voltage on [TV vol	
Atmospheric Pressure 70~106kPa	Discharge characteristic Setting Control Max discharge current Discharge protection Double-time control ON / OFF mode PV voltage control PV voltage / time delay control Discharge voltage protection Communication Features RS232 Communication LAN Communication Input Low Voltage Protection Input Overvoltage Protection Input Overvoltage Protection Output Overvoltage Protection Output Polarity Reversal Protection Output Polarity Reversal Protection Temperature Protection Other Parameters Noise Thermal methods Components Smell Environment Protection Physical Measurement DxWxH (mm) N.G(kg) G.N(kg) Color Safety EMC Type of Mechanical Protection Environment Humidity Altitude Operating Temperature	Controller or 12V/24V/48V System	LAN 40A fuse 30A*2 On in morning ,off in morning / On in night ,off in night ON / OFF PV voltage on[PV voltage off PV voltage on[The delay off Output off when it under setting voltage; Factory set is 10.5 .(Note : set based on 1 battery) Chose COM communication Set IP and Gate address for controller and solar eagle ;Then chose TCP communication Check the input characteristics Check the input characteristics yes Check the output characteristics yes Recover after eliminating the Short-circuit fault, no problem for long term Short-circuit 95°C Above 85°C,decrease the output power, decrease 3A per degree. ≤40dB Forced air cooling, fan speed rate regulated by temperature, when inner temperature is too low, fan ran slowly stop; when controller stop working, fan also stop ran. World brand raw materials. Compliance with EU standards. All rated temperature of electrolytic capacitors not than 105°C No peculiar smell and toxic substances. Meet the 2002/95/EC,no cadmium hydride and fluoride 270*185*90 3 3.6 Blue/Green (optional) CEC, RoHS, PSE, FCC EN61000 IP21 I(no condense) 40°C	
	Discharge characteristic Setting Control Max discharge current Discharge protection Double-time control ON / OFF mode PV voltage control PV voltage control Discharge voltage protection Communication Features RS232 Communication LAN Communication Protection Input Low Voltage Protection Input Low Voltage Protection Input Overvoltage Protection Input Polarity Reversal Protection Output Overvoltage Protection Output Overvoltage Protection Short-circuit Protection Temperature Protection Other Parameters Noise Thermal methods Components Smell Environment Protection Physical Measurement DxWxH (mm) N.G(Kg) G.N(kg) Color Safety EMC Type of Mechanical Protection Environment Humidity Altitude Operating Temperature Storage Temperature	Controller or 12V/24V/48V System	TLAN 40A fuse 30A*2 On in morning ,off in morning / On in night ,off in night ON / OFF PV voltage on∏PV voltage off PV voltage on∏PV voltage off Output off when it under setting voltage; Factory set is 10.5 .(Note : set based on 1 battery) Chose COM communication Set IP and Gate address for controller and solar eagle ;Then chose TCP communication Check the input characteristics Check the input characteristics yes Check the output characteristics yes Recover after eliminating the Short-circuit fault, no problem for long term Short-circuit 95°C Above 85°C,decrease the output power, decrease 3A per degree. ≤40dB Forced air cooling, fan speed rate regulated by temperature, when inner temperature is too low, fan ran slowly stop; when controller stop working, fan also stop ran. World brand raw materials. Compliance with EU standards. All rated temperature of electrolytic capacitors not than 105°C No peculiar smell and toxic substances. Meet the 2002/95/EC,no cadmium hydride and fluoride 270*185*90 3 3.6 Blue/Green (optional) CE, RoHS, PSE, FCC EN61000 IP21 If no condense)	

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



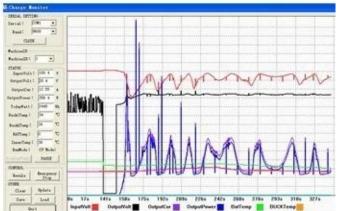


The interface of upper computer software working state

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

