Introduction:

This is a solar charge controller 40A \sim 60A that have automatic max. power point tracking function with high efficiency that almost 30% \sim 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.







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.

Parameter:

	40A	50A	60A	
Maximum Power Poi	nt Tracking			
121,211,1015,51011				
12V/24V/48Vsystem	500us			
-				
12V/24V/48Vsystem	≥96.5%,≤99%			
12V/24V/48Vsystem	>99%			
13)/	DC10V DC1F0V			
12V system	DC22V			
24V system	DC34V			
48V system	DC65V			
	DC160V			
12V/24V/48V system	DC150			
12V/24V/48V system	DC145V			
12V system	570W	700W	900W	
24V system	1130W	1400W	1700W	
48V system	2270W	2800W	3400W	
12V/24V/48V system	(Other types of the b	ted, Gel, NiCd battery atteries also can be defined)		
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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		
RS232 Communication	12V/24V/48V System Chose COM communication	
LAN Communication	12V/24V/48V System Set IP and Gate address for controller and solar eagle ;Then chose TCP communication	
Protection		
Input Low Voltage Protection	Check the input characteristics	
Input Overvoltage Protection	Check the input characteristics	
Input Polarity Reversal Protection	yes	
Output Overvoltage Protection	Check the output characteristics	
Output Polarity Reversal Protection	yes	
Short-circuit Protection	Recover after eliminating the Short-circuit fault, no problem for long term Short-circuit	
Temperature Protection	95°C	
Temperature protection	Above 85°C, decrease the output power, decrease 3A per degree.	
Other Parameters		
Noise	≤40dB	
Thermal methods	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	World brand raw materials. Compliance with EU standards. All rated temperature of electrolytic capacitors not less than 105°C	
Smell	No peculiar smell and toxic substances.	
Environment Protection	Meet the 2002/95/EC,no cadmium hydride and fluoride	
Physical		
Measurement DxWxH (mm)	270*185*90	
N.G(kg)	3	
G.N(kg)	3.6	
Color	Blue/Green (optional)	
Safety	CE, RoHS, PSE,FCC	
EMC	EN61000	
Type of Mechanical Protection	IP21	
Environment	0.000004	
Humidity	0~90%RH (no condense)	
Altitude	0~3000m	
Operating Temperature	20°C ~ +40°C	
Storage Temperature	-440°C ~ +75°C	
Atmospheric Pressure	70~106kPa	



Upper Computer Software and Test Software



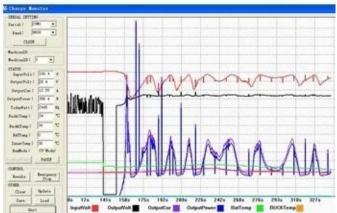


The interface of upper computer software working state

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



Certificates

ISO2008 ISO2004 CE FCC ROHS

Company









