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.







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.

MODEL:I-P-SMART2-20 SERIES	0A/25A/30A -	20A	25A	30A		
Charge Mode		Maximum Power Point Tracking				
Discharge Mode		Intelligent control				
System Type		12V 24V 48V Automatic recognition				
Soft Start Time		≤10S				
Dynamic Response Recovery Time		500us				
onversion Efficiency		≥96.5%,≤99%				
PV Modules Utilization	Rate	≥99%				
INPUT CHARACTERIS	TICS					
MDDT Montring Voltage	12V system	DC18V~DC150V				
MPPT Working Voltage and Range	24V system	DC34~DC150V				
allu Maliye	48V system DC65~DC150V					
Low Voltage Input	12V system	DC16V				
Protection Point	24V system	DC30V				
	48V system	DC60V				
I ou Volto no Innut	12V system	DC22V				
Low Voltage Input Recovery Point	12V systemDC22V24V systemDC34V					
Recovery Follic	48V system DC65V					
Max. DC Voltage		DC160V				
Input Overvoltage Protection Point		DC150				
Input Overvoltage Reco	overy Point	DC145V				
	12V system	286W	357W	429W		
Max. PV Power	24V system	572W 715W 858W		858W		
	48V system	1144W	1430W	1716W		

Technical Specification:

CHARGE CHARACTERISTICS				
Selectable Battery Types	Sealed lead acid, v	ented, Gel, Ni	Cd battery(Default type is GEL battery)	
	Constant charge	User-defined constant/floating charge voltage		
Other types of Battery Setting	Floating charge		en DC10V~DC15 (based on 1 pcs 12V	
Battery Type Setting	12V/24V/48V SYS		nd upper monitor	
Charge Type	12V/24V/48V SYS	Three Stages :Fast charge/Constant charge/Floating charge		
Rated Output Current	20A	25A	30A	
Current-limiting Protection	25A	30A	35A	
Temperature Factor	±0.02%/°C			
Temperature Compensation	14.2V-(The highest	temperature-2	25°C)*0.3	
Output Ripples(peak)	200mV			
Output Voltage Stability Precision Charge voltage Peak-Peak Ripple	≤±1.5% 200mV			
Charger voltage accuracy	≤±1.5%			
DISCHARGE CHARACTERISTICS	==1.070			
Setting Control	Controller or LAN			
Max discharge current	30A			
Max discharge power	420W	840W	1680W	
Discharge protection	fuse 40A*2			
Double-time control	off, On in morning	in morning / C	n in night ,off in night	
ON / OFF mode	ON / OFF			
PV voltage control	PV voltage on,PV v			
PV voltage / time delay control	PV voltage on,time			
Discharge voltage protection	Output off when it under setting voltage; Factory set is 10.5 .(Note : se based on 1 battery)			
COMMUNICATION PORT RS232 Communication	Chose COM comm	unication		
LAN Communication	Set IP and Gate address for controller and solar eagle ;Then chose TC			
PROTECTIONS	communication			
PROTECTIONS Input Low Voltage Protection	communication			
PROTECTIONS Input Low Voltage Protection Input Overvoltage Protection	communication			
Input Low Voltage Protection Input Overvoltage Protection Input Polarity Reversal Protection	Check the in/outpu	t characteristi	cs	
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Operating Temperature	-20°C ~ +40°C
Storage Temperature	-40°C ~ +75°C
Atmospheric Pressure	70~106kPa



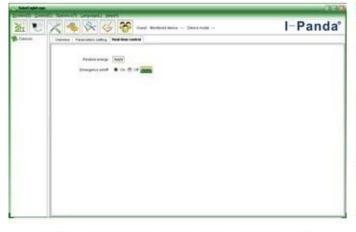
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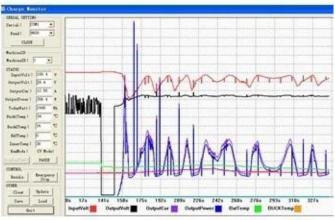
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The interface of upper computer software working state



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

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Company









