Features

1.MPPT charge mode, conversion efficiency up to 99%

2.12V/24V/48V system auto recognize;

 $3.Wide \ range \ of \ PV \ input \ with \ max. is \ DC150V.$

4.Memory function, Save setting function: date, time, generating capacity record and so on .

5.Charge mode: 3 stages (fast charge,constant charge ,floating charge) .It prolongs service life of the batteries .

6.Discharge mode: ON/OFF mode, double time control mode, PV voltage control mode , PV voltage+time delay mode and so on .

7.Selected battery types: sealed lead acid, vented, gel, NiCd battery. Other types of the batteries can also be defined.

8.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.

9.RS232 and LAN communication port. IP and Gate address could be user define it satisfy global area.And communication protocol can be provided to manage all information.

10.The upper computer software is displayed in 11 languages, it could show work status and be set parameters of the discharge system.

11. With intelligent design, the device can be upgraded online lifelong.

12.Compliance with the 2002/95/EC environment protecting demand, doesn't include the Cadmium, hydride and fluoride etc material

13.Equipment integrity: controller + CD-ROM(microcomputer software) + communication wire + temperature sensing wire + Anderson terminals;

14.CE, ROHS certifications approved.

15. 2years warranty. The service life is designed to use for 10 years in theory. Extended $3\sim10$ years warranty service also can be provided.

MODEL:I-P-SMART	2-20A/25A/30A	204		204	
-SERIES		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			
Conversion Efficiency		≥96.5%,≤99%			
PV Modules Utilization Rate		≥99%			
INPUT CHARACTE	RISTICS				
MPPT Working Voltage and Range	12V system	DC18V~DC150V	r		
	24V system	DC34~DC150V			
	48V system	DC65~DC150V			
Projection Point	12V system	DC16V			
	24V system	DC30V			
	48V system	DC60V			
Recovery Point	12V system	DC22V			
	24V system	DC34V			
	48V system	DC65V			
Max. DC Voltage		DC160V			

Technical Specification:

Input Overvoltage	Protection	D0150			
Point		DC150			
Input Overvoltage	J	DC145V	-		
	12V system	286W	357W	429W	
Max. PV Power	24V system	572W	715W	858W	
	48V system	1144W	1430W	1716W	
CHARGE CHARAC	TERISTICS				
Selectable Battery	Types	Sealed lead acid			
		battery(Default type is GEL battery)			
Other types of Battery Setting		Constant charge User-defined constant/floating charge voltage range between			
		Floating charge	DC10V~DC15 (based on 1 pcs 12V battery)		
Battery Type Setting		12V/24V/48V SYS		upper monitor	
Charge Type		12V/24V/48V SYS	Three Stages :Fast charge/Constant charge/Floa charge		
Rated Output Current		20A	25A	30A	
Current-limiting Pi		25A	30A	35A	
Temperature Facto		±0.02%/°C			
Temperature Com		14.2V-(The high	est temperature	e-25°C)*0.3	
Output Ripples(peak)		200mV			
Output Voltage Sta					
Charge voltage Peak-Peak Ripple		200mV			
Charger voltage ad		≤±1.5%			
DISCHARGE CHAI					
Setting Control		Controller or LA	N		
Max discharge cur	rent	30A			
Max discharge pov	ver	420W	840W	1680W	
Discharge protect	ion	fuse 40A*2			
		On in morning ,off in morning / On in night ,off in night			
ON / OFF mode		ON / OFF			
PV voltage control		PV voltage on,PV voltage off			
PV voltage / time delay control		PV voltage on,time delay off			
Discharge voltage protection		Output off when it under setting voltage; Factory set is 10.5 .(Note : set based on 1 battery)			
COMMUNICATION					
RS232 Communica	ntion	Chose COM com			
LAN Communication		Set IP and Gate address for controller and solar eagle ;Then chose TCP communication			
PROTECTIONS					
Input Low Voltage	Protection				
Input Overvoltage Protection		1			
Input Polarity Reversal Protection Output Overvoltage Protection		Check the in/output characteristics			
					Output Polarity Re
Protection					
Short-circuit Prote	ction	Recover after eliminating the Short-circuit fault, no problem for long term Short-circuit			
Temperature Prote	ection	95℃			
		Above 85°C,decrease the output power, decrease			
Temperature protection		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.
Environment Protection	World brand raw materials. Compliance with EU standards. Meet the 2002/95/EC without cadmium hydride, fluoride, peculiar smell and toxic substances.All rated temperature of electrolytic capacitors not less than 105°C
PHYSICAL	
Measurement DxWxH (mm)	270*185*90
N.G(kg)	2.1
G.N(kg)	2.4
Color	Blue/Green (optional)
Safety	CE, RoHS, PSE,FCC
EMC	EN61000
Type of Mechanical Protection	IP21
ENVIRONMENT	
Humidity	0~90%RH (no condense)
Altitude	0~3000m
Operating Temperature	-20°C ~ +40°C
Storage Temperature	-40°C ~ +75°C
Atmospheric Pressure	70~106kPa

Note:

We provide OEM and ODM service. The 36V/72V/96V model also can be custom made for you.

Product Parts:



NO.	Quantity	Description	
1	1 pc	Charge controller	
2	2 pc	Gallow pulley (For install the controller on the wall)	
3	4 set	Screw (For install the controller on the wall)	
4	1 pc	232 turn to RJ45 communication cable	
5	1 pc	User manual	
6	1 pc	Temperature sensing wire	
7	2 pc	Fuse wire	

Upper Computer Software and Test Software

Centras	Version of the fraction of the second of the		ALL SA	A State of the second s		
		Nyel Monadow Privadage V Entersonal Anaportalism V		Enterstaar Bank strager velager Bank strager velager Bank strager velager	Fixed charge exchange	
	Ealer taxe Lost taxe Nat favore versal Node Late	(Reflect sects)		Load order the Texa Cal • Apple Womey tool or thre 12,20(2) Apple Womey tool of thre 12,20(2) Apple Manage tool of thre 12,20(2) Apple	Last on PV off Last of PV off	
	Orașe ofisje: Bă V Orașe pore: Bă N Orașe seret Bă A într pore: Bă VA. Beles lengenture Bă C	A D TON' TON' Con		Naprose of Stree	Lost of takes with	

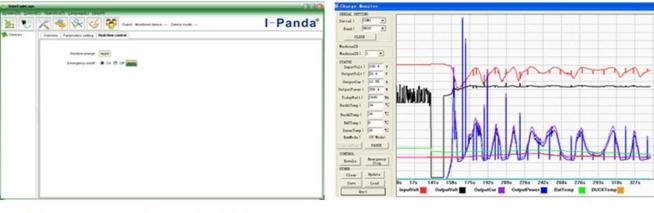
The interface of upper computer software working state

The interface of upper computer software parameter setting state

I-Panda

- 2 (-----

18 Card



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

The interface of test software working state

Note:

- 1) Attachment is upper computer software which is suitable for all computer systems .
- 2) Trafficker will provide neutral upper computer software and CD,or with customer's logo.
- 3) WIN7,IN8 system user, please log in as administrator. More details please check the manual.

Information on Display and Settable Parameters:

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Note:

1) All above information is a sample which is the working state of MPPT in sometime. In different working stage the parameters will change like work mode, charge current ,charge mode ,charge power and so on ; In the fault mode it will show fault mode ;

2) If all above dates show XX means this could change; the details please check the manual.

Installation



Note:

Above is off-grid solar system connection picture ;
Other ways for PC-communication, please check the manul for details;

Other Parameters:

Please check design brief, technical documents, product manual for more details.