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. Journal function , Save function set ,Date ,time ,Generating capacity and so on .

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

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

7.Recommended 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 number , PV input voltage, battery type , battery voltage , charging current , charging power , working status and so on. Also customer 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 help customer manage all information

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

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

12.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.

13.Compliance with the 2002 95 EC environment protecting demand, does not include the Cadmium, hydride and fluoride etc material

14.Equipment integrity: controller ,CD-ROM(microcomputer software), communication wire , temperature sensing wire,Anderson terminals

15.CE,ROHS certifications approved.

16.2 years warranty. And 3~10 years extended warranty service also can be provided.

MODEL_SMART2-20A/25A/30A - 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 Utilizat	ion Rate	≥99%				
INPUT CHARACTER	STICS					
	12V system	DC18V~DC150V				
MPPT Working	24V system	DC34~DC150V				
Voltage and Range	48V system	DC65~DC150V				
	12V system	DC16V				
Low Voltage Input Protection Point	24V system	DC30V				
	48V system	DC60V				
Low Valtage Input	12V system	DC22V				
Low Voltage Input	24V system	DC34V				
Recovery Point	48V system	DC65V				
Max. DC Voltage		DC160V				
Input Overvoltage Protection Point		DC150				
Input Overvoltage I	Recovery Point	DC145V				

Technical Specification:

	12V system	286W	357W	429W	
Max. PV Power	24V system	572W	715W	858W	
	48V system	1144W	1430W	1716W	
CHARGE CHARACT			1.5011	1,1011	
		Sealed lead acid, vented, Gel, NiCd			
Selectable Battery Types		battery(Default type is GEL battery)			
Other types of Battery Setting		Constant charge charge voltage range between			
		Floating charge	$DC10V \sim DC15$ (based on 1 pcs		
Battery Type Setting		12V/24V/48V SYS	Controller and upper monitor		
Charge Type		12V/24V/48V SYS	Three Stages :Fast charge/Constant charge/Floatin charge		
Rated Output Curre	ent	20A	25A	30A	
Current-limiting Pro		25A	30A	35A	
Temperature Facto		±0.02%/°C			
Temperature Com		14.2V-(The highest temperature-25°C)*0.3			
Output Ripples(pea		200mV			
Output Voltage Sta					
Charge voltage Peak-Peak Ripple Charger voltage accuracy		≤±1.5%			
DISCHARGE CHARA		5-1.5%			
	ACTERISTICS	Controllor or LAN	.1		
Setting Control	t	Controller or LAN	N		
Max discharge curi		30A	0.4014	1.0004	
Max discharge pow			840W	1680W	
Discharge protect	ion	fuse 40A*2	<u> </u>		
Double-time contro	bl	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 d	lelay 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 F	PORT				
RS232 Communica	tion	Chose COM communication			
LAN Communicatio	n	Set IP and Gate address for controller and solar eagle ;Then chose TCP communication			
PROTECTIONS					
Input Low Voltage	Protection				
Input Overvoltage					
Input Polarity Reve					
Output Overvoltage Protection		Check the in/output characteristics			
Output Polarity Reversal					
Protection					
Short-circuit Protection		Recover after eliminating the Short-circuit fault, no problem for long term Short-circuit			
Temperature Protection		95℃			
-		Above 85°C, decrease the output power, decrease			
Temperature protection		3A per degree.			
OTHER PARAMETEI	RS	· · •			
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 testing Software:



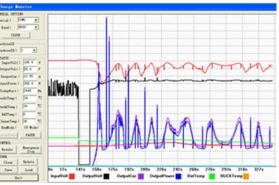
¥ U	× 🛸 🛠 <	÷ 😚 🛶	Manifered de	nin – Cena main –		I-Panda [®]
P Dentari	Owners Parameters utiling	Pear Smarcortfold				
	Entertax	•	Apple			
	But they object	- 2	(here)	Fixe charge rollage	- (2	
	Rai charge Lanvell	- 6	Appelle			
	Last controlling	Trea Cal	Ann			
	Warrang to at units or	N28(2)	Appen	Law or Privilege		
	Montry last of Street	10.26(\$	Aure	Lise difference	in the second	
	Ngti load on bria	18.28(\$	Apple	Line Arie Smelhout	12	
	Ingrease of Sea	10.002	Auto	Lost of Safers where	10(2) (4699)	

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

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:

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 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.