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.

Technical Specification:

Model: SMART2-40A/50A/60A -series		40A	50A	60A	
Charge Mode	Maximum Power	Point Tracking	•	<u>.</u>	
Method	3 stages: fast cha	arge(MPPT),constan	t voltage, floating ch	arge	
System Type	DC12V/24V/48V	Automatic recognit	ion	-	
	12V system	DC9V~DC15V			
System Voltage	24V system	DC18V~DC30V			
	48Vsystem	DC36V~DC60V			
Soft Start Time	12V/24V/48Vsyst em				
Dynamic Response Recovery Time	12V/24V/48Vsyst em				
Conversion Efficiency	12V/24V/48Vsyst em				
PV Modules Utilization Rate	12V/24V/48Vsyst em	≥99%			
Input Chara	cteristics				
	12V system	DC18V~DC150V			
MPPT Working Voltage and Range	24V system	DC34~DC150V			
	48V system	DC65~DC150V			
	12V system	DC16V			
Low Voltage Input Protection Point	24V system	DC30V			
	48V system	DC60V			
Low Voltage Input Recovery Point	12V system	DC22V			
ow voicage input necovery rount	24V system	DC34V			
	48V system DC65V				
Max DC Voltage	12V/24V/48V system	DC160V			
Input Overvoltage Protection Point	12V/24V/48V system	DC150			
Input Overvoltage Recovery Point	12V/24V/48V system	DC145V			
Max. PV Power	12V system	570W	700W	900W	
	24V system	1130W	1400W	1700W	
	48V system	2270W	2800W	3400W	
Output Characteristics				•	
Selectable Battery Types (Default type is	12V/24V/48V	Sealed lead acid, v	ented, Gel, NiCd batt	ery	
GEL battery)	system	(Other types of the	batteries also can be	e defined)	

Constant voltage System Passe check the charge voltage according to the battery type form. 12v/24v/48V Pastern 12v		12V/24V/4	Q\/					
Placeting Charge Voltage 12/2/43/49V	Constant Voltage		OV					
SPECIAL SPEC	Floating Charge Voltage		8V	Please check the	e charge voltage acc	cording to the batte	ery type form.	
Description	Floating Charge Voltage							
BBV system D8.4V	Over Charge Bretastian Veltage							
Nate Communication 12/07/4/1987 2004 50A 5	over Charge Protection Voltage							
April	Data d Outrant Command		0\/		F0.4		COA	
April Apri	Rated Output Current			40A	SUA		6UA	
Rate charge current System 12,072,474/88 5,000 500 500 5,000 5	Current-limiting Protection		8V	44A	55A		66A	
Fate Carge Culfent System Output Rippesspoon System Output Rippesspoon Output Rippesspoon Output Rippesspoon Output Rippesspoon Output Rippesspoon Output Rippesspoon Output Voitage Stability Precision Output Ovitage Protection Output Ovitage Protection Output Ovitage Output Output Ovitage Output			8\/		+			
Emperature Compensation System SV2EW System Sy	Rate charge current		O V	40A	50A		60A	
System Carpersation Carpersylva Carpers Carper	Temperature Factor		8V	+0.02%/°C			•	
Interpretative Compensation System 14.74*(In ingless temperature 25*1.7*U.3*) 27/274/W48V System 27/274/W48V System 27/274/W48V System 27/274/W48V System 27/274/W48V System 27/274/W48V System Syst	Temperature ractor		0) /	_0.0270/ C				
Dutput Voltage Stability Precision 12V724V/48V system Special Procession 12V724V/48V System System Special Procession 12V724V/48V System Syste	Temperature Compensation	1 ' '	δV	14.2V-(The high	est temperature-25°	°C)*0.3		
Output Voltage Stability Precision L2V74W48V System Charger voltage Peak-Peak Ripple System Charger voltage accuracy System Charger voltage characteristic Setting Control Max discharge current System Olscharge protection 12V724W48V System Olscharge voltage protection 12V724W48V System System System No System System System Chose COM communication 12V724W48V System Chose COM communication System Frotection Input Low Voltage Protection 12V724W48V System System Chose COM communication 12V724W48V System System Chose COM communication System Chose COM communication 12V724W48V System System Chose COM communication 12V724W48V System System Chose COM communication 12V724W48V System System Chose COM communication System System Chose COM communication System Chose COM communication System System Chose COM communication System System System Chose COM communication System System Chose COM communication System System System Chose COM communication System Syste	Output Displac(seek)		8V	200>/				
System 22V/24V/48V System 22V/24V/48V System 22V/24V/48V System 22V/24V/48V System	Output Rippies(peak)			200mv				
Charge voltage Peak-Peak Ripple System Discharge characteristic Setting Control Max discharge current Discharge protection Discharge voltage volt	Output Voltage Stability Precision	1 ' '	8V	≤±1.5%				
Charger voltage accuracy Discharge characteristic Setting Control Ax discharge current Discharge characteristic Setting Control 12V/24V/48V System Discharge characteristic Double-time control Discharge characteristic Double-time control Discharge protection 12V/24V/48V System Double-time control Discharge control Discharge control Discharge voltage protection Discharge voltage voltage voltage voltage voltage voltage voltage voltage vol			.8V					
System S±1.5%	Charge voltage Peak-Peak Ripple		••	200mV				
Discharge chracteristic Setting Control Controller or LAN Max discharge current Discharge protection Discharge outrol PV voltage control PV voltage ontrol Discharge voltage protection Check the input characteristics Discharge protection Discharge protection Discharge protection Discharge protection Check the input characteristics Discharge protection Discharge voltage protection Discharge voltage protection Discharge voltage	Charger voltage accuracy	I	8V	<+1.5%				
Setting Control Controller or LAN Max discharge current 12V/24V/48V System Discharge protection 12V/24V/48V System Double-time control 2V/24V/48V System Double-time control 12V/24V/48V System Double-time delay control 12V/24V/48V System Double-time delay control 12V/24V/48V System Discharge voltage protection 12V/24V/48V System Discharge voltage pr	, , , , , , , , , , , , , , , , , , ,	System						
Max discharge current 12/1/24/48/ System 12/1/			ontroll	er or LAN				
Discharge protection 12V/24V/48V System Double-time control 12V/24V/48V System Double-time delay control 12V/24V/48V System PV voltage control 12V/24V/48V System PV voltage on[]PV voltage off Double-time delay control 12V/24V/48V System Discharge voltage protection 12V/24V/44V System Discharge voltage protection 12V/24V/44V System Discharge voltage protection			01/					
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Double-time control 12V/24V/48V System ON / OFF mode 12V/24V/48V System PV voltage control 12V/24V/48V System PV voltage control 12V/24V/48V System PV voltage / time delay control 12V/24V/48V System Discharge voltage protection 12V/24V/48V System LAN Communication Features 12V/24V/48V System LAN Communication 12V/24V/48V System Chose COM communication 12V/12V/48V System Chose COM communication 12V/12V/18V System Chose COM communication 12V/12V/18V System Chose COM commu	Discharge protection		8V	fuse 30A*2				
Double-time control System On In morning, off in morning / On In night, off in night			8\/					
Display Disp	Double-time control		OV	On in morning ,	off in morning / On in	n night ,off in night		
Discharge voltage protection Tavy2aVi48V System PV voltage on[]PV voltage on Tavy2aVi48V System PV voltage on Tavy2aVi48V System Discharge voltage protection Tavy2aVi48V System Discharge voltage protection Tavy2aVi48V System Doubt off when it under setting voltage; Factory set is 10.5. (Note: set based on 1 Dattery Dat	ON / OFF mode		8V	ON / OFF				
PV voltage (ntriol protection protection patterns and protection p	ON / OTT MODE			011 / 011				
Discharge voltage protection System PV voltage onlytime delay off	PV voltage control	System		PV voltage on <u></u> P	V voltage off			
Discharge Voltage Protection System battery	PV voltage / time delay control	System		5 -	-			
Communication Features 12V/24V/48V System	Discharge voltage protection				it under setting vol	tage; Factory set is	10.5 .(Note : set based on 1	
LAN Communication System Conse COM Communication 12V/24V/48V System Set IP and Gate address for controller and solar eagle ;Then chose TCP communication 12V/24V/48V System Set IP and Gate address for controller and solar eagle ;Then chose TCP communication 12V/24V/48V System Set IP and Gate address for controller and solar eagle ;Then chose TCP communication 12V/24V/48V System Set IP and Gate address for controller and solar eagle ;Then chose TCP communication 12V/24V/48V System Set IP and Gate address for controller and solar eagle ;Then chose TCP communication 12V/24V/48V System Set IP and Gate address for controller and solar eagle ;Then chose TCP communication 12V/24V/48V System Set IP and Gate address for controller and solar eagle ;Then chose TCP communication 12V/24V/48V System Set IP and Gate address for controller and solar eagle ;Then chose TCP communication 12V/24V/48V System 12V/24V/48V System 12V/24V/48V Set IP and Gate address for controller and solar eagle ;Then chose TCP communication 12V/24V/48V System 12V/24V/48V System 12V/24V/48V System 12V/24V/48V System 12V/24V/48V Set IP and Gate address for controller and solar eagle ;Then chose TCP communication 12V/24V/48V Set IP and Gate address for controller and solar eagle ;Then chose TCP communication 12V/24V/48V Set IP and Gate address for controller and solar eagle ;Then chose TCP communication 12V/24V/48V Set IP and Gate address for controller and solar eagle ;Then chose TCP communication 12V/24V/48V Set IP and Gate address for controller and solar eagle ;Then chose TCP communication 12V/24V/48V Set IP and Gate address for controller and solar eagle ;Then chose TCP communication 12V/24V/48V Set IP and Gate address for controller and solar eagle ;Then chose TCP communication 12V/24V/48V 12V/24V/48V	Communication Features	1-7		,				
LAN Communication 127/24V/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 Polarity Reversal Protection Ves Output Overvoltage Protection Ves Output Overvoltage Protection Ves Output Polarity Reversal Protection Ves Output Polarity Reversal Protection Recover after eliminating the Short-circuit fault, no problem for long term Short-circuit Temperature Protection Recover after eliminating the Short-circuit fault, no problem for long term Short-circuit Temperature Protection Above 85°C, decrease the output power, decrease 3A per degree. Other Parameters S40dB 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 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. World barnad 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 NG(kg) 3 G.N(kg) G.N(kg)	RS232 Communication		8V	Chose COM com	munication			
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Short-circuit Protection Recover after eliminating the Short-circuit fault, no problem for long term Short-circuit Temperature Protection 95°C 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 West the 2002/95/EC,no cadmium hydride and fluoride Measurement DxWxH (mm) 270*185*90 N.G(kg) 3.6 Color Blue/Green (optional) Safety CE, RoHS, PSE, FCC EMC EN61000 Type of Mechanical Protection IP21 Environment Humildity 0~90%RH (no condense) Altitude 0~3000m Operating Temperature -20°C ~ +40°C					ic criaracteristics			
Temperature protection Other Parameters Noise Thermal methods Components Smell Environment Protection Physical Measurement DxWxH (mm) N.G(kg) G.N(kg) G.N(k	Short-circuit Protection				iminating the Short-	circuit fault, no pro	blem for long term Short-circuit	
Other Parameters ≤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 Weasurement DxWxH (mm) Measurement DxWxH (mm) 270*185*90 N.G(kg) 3.6 G.N(kg) 3.6 Color Blue/Green (optional) Safety CE, RoHS, PSE,FCC EMC EN61000 Type of Mechanical Protection IP21 Environment Inmidity Humidity 0~90%RH (no condense) Altitude 0~3000m Operating Temperature -20°C ~ +40°C				95℃	<u> </u>	•	<u> </u>	
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 P21 Environment Humidity 0~90%RH (no condense) Altitude 0~3000m Operating Temperature -20°C ~ +40°C				Above 85°C,dec	rease the output po	wer, decrease 3A p	er degree.	
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 Morld 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) 3.6 G.N(kg) G.N(kg) Safety CE, RoHS, PSE,FCC EMC Type of Mechanical Protection IP21 Environment Humidity 0~90%RH (no condense) Altitude 0~3000m Operating Temperature				<40dB				
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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 P21 Environment Humidity 0~90%RH (no condense) Altitude 0~3000m Operating Temperature -20°C ~ +40°C	Inermal methods			too low, fan ran	slowly or stop; when	n controller stop wo	orking, fan also stop ran.	
Smell No peculiar smell and toxic substances.	Components						ards. All rated temperature of	
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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 Humidity Humidity 0~90%RH (no condense) Altitude 0~3000m Operating Temperature -20°C ~ +40°C								
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Safety CE, RoHS, PSE,FCC EMC EN61000 Type of Mechanical Protection IP21 Environment Humidity Humidity 0~90%RH (no condense) Altitude 0~3000m Operating Temperature -20°C ~ +40°C					ional)			
EMC EN61000 Type of Mechanical Protection IP21 Environment IP21 Humidity 0~90%RH (no condense) Altitude 0~3000m Operating Temperature -20°C ~ +40°C								
Environment Humidity 0~90%RH (no condense) Altitude 0~3000m Operating Temperature -20°C ~ +40°C	EMC							
Humidity $0\sim90\%$ RH (no condense)Altitude $0\sim3000$ mOperating Temperature -20° C $\sim +40^{\circ}$ C				IP21				
Altitude $0\sim3000\mathrm{m}$ Operating Temperature $-20^{\circ}\mathrm{C} \sim +40^{\circ}\mathrm{C}$		lo.	000/ 5	U (no condon	N			
Operating Temperature -20°C ~ +40°C				•	:)			
<u> </u>	Storage Temperature	-4	10°C ~	+75℃				
Atmospheric Pressure 70~106kPa	Atmospheric Pressure	70	0~106	<pa< td=""><td></td><td></td><td></td></pa<>				

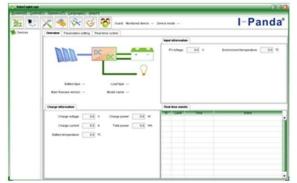
Note: We provide OEM and ODM service. The 36V / 72V / 96V model also can be custom made for you.

Product Parts:

NO.	Quantity	Description
1	1 unit	Charge controller
2	2 pc	Terminals
3 2 pc	Gallow pulley	
	(For install the controller on the wall)	
4	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
	50000	



Upper Computer Software and testing Software:

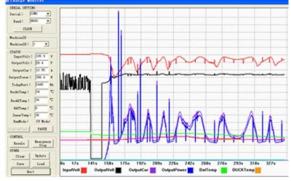




The interface of upper computer software working state

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

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.

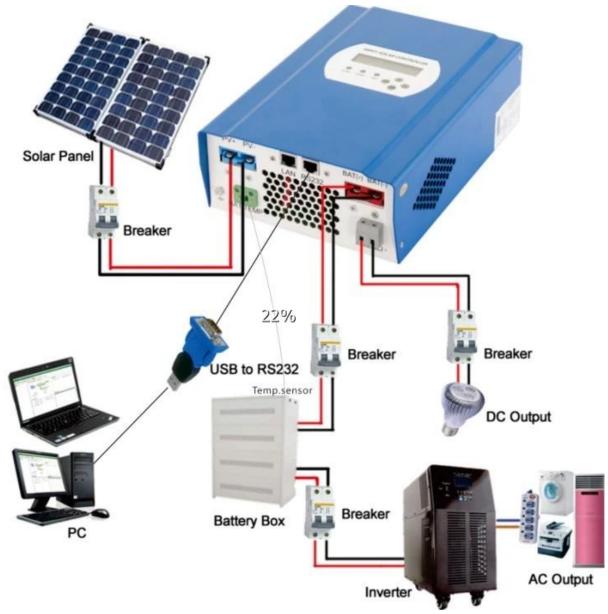
Information on Display and Settable Parameters:



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:

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

Other Parameters:

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