eSmart3 series is the third generation of eSmart mppt controller, combined with the second generation of high conversion efficiency, back-light LCD display, control mode, connect way, internal structure etc. features, also optimized the following points:

1.Increase all kinds of protection function to be used more reassuring.

2.Add the LOAD sampling to be used more clear of output load.

3.Wider PV Input voltage than eSmart2, so it suitable for more kinds of PV modules

4. Reduce the static standby self-consumption, energy saving and more simply for small system.

Choose eSmart3, more intelligent in life!





Features:

1.It has an efficient MPPT algorithm, MPPT efficiency \geq 99.5% and converter efficiency up to 98%. 2.Charge mode: three stages (constant current, constant voltage, floating charge), it prolongs service life of the batteries.

3.Four types of load mode selection: ON/OFF, PV voltage control, Dual Time control, PV+Time control . 4.Battery system voltage automatic recognition.

5. Three kinds of commonly used lead-acid battery (Seal\Gel\Flooded) parameter settings fcan be selected by the user, and the user can also customize the parameters for other battery charging.

6.It has a current limiting charging function. When the power of PV is too large, the controller automatically keeps the charging power, and the charging current will not exceed the rated value.

7. High definition LCD display function to check the device running data and working status, also can support modify the controller display parameter.

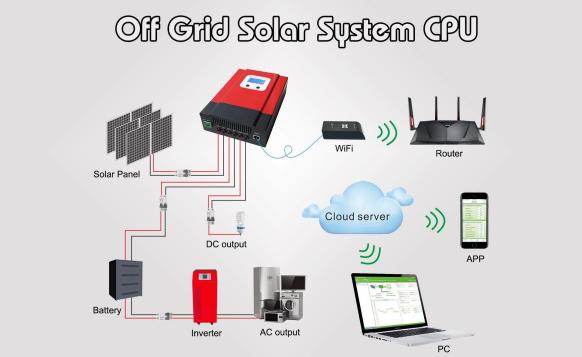
8.RS485 communication, we can offer communication protocol to convenient user's integrated management and secondary development.

9.Support PC software monitoring and WiFi module to realize APP cloud monitoring.

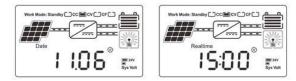
10.CE, RoHS, FCC certifications approved, we can assist clients to pass various certifications.

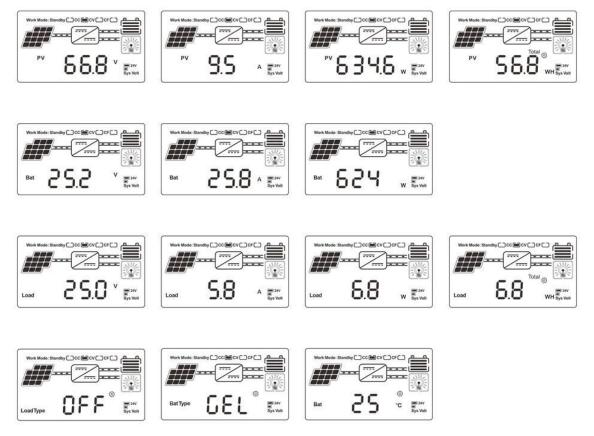
11.3 years warranty, and 3~10 years extended warranty service also can be provided.

MPPT Controller connection diagram



Parameters Display & Setting information





LCD display information



Set the battery type and LOAD control mode

Upper Computer Software & Test Software

Image: Second
-DV lafa
PV Info
C COM7[01]_30000003201707 PV voltage: 51.5 V PV power: 92.8 N PV current: 1.6 A Reduced CO2: 4.0 9
Battery Info
Battery type: Get Load type: OFF Mode Charging voltage: 27.6 V Battery capacity: 100.0
Main CPU processor version: 1.1A Model name: Wiser3-30A-MPPT Charging current: 3.0 A Battery temp: 23.0
Machine temp.: 25.0 °C Charging power: 82.0 W
PV voltage Charging voltage Charging power Load voltage
Load voltage: 0.0 V Load power: 0.0 V
140 Load current: 0.0 A
130 -
120
110 Ferrgy Info
Daily: 5.0 wh Load daily: 0.0 w
80 > 80
≥ ⁸⁰ 70 Total: 5.0 wh Load total: 0.0 w
80
50
40
30
20
10
MyGreen Solar Monitor V1.0 Copy Right LPanda

PC software_SolarEagle

Visual display of charge and discharge status, PV voltage, charge voltage, charge current, and can set the battery type, LOAD output control;

Parameter

	eSmart3 serie	25		30A	
	Controller Properties		MPPT (maximum power point tracking)		
Product	MPPT efficiency		≥99.5%		
category	Standby power		0.5W~1.2W		
	System voltage		Automatic recognition		
	Heat-dissipating method		Intelligent fan cooling		
	Max.PV inpu	it voltage(VOC)		DC150V	Start the Battery charge voltagevoltage point + 3V
Input	Low input voltage protection point		Battery voltage + 2V		
Characteristics	Over voltage protection point		DC150V		
	Rated PV power	12V system		390W	
		24V system		780W	
		36V system		1170W	
		48V system		1560W	
		Selectable Batter	y Types	Sealed lead acid, Gel battery, Flooded (Other types of the batteries also can be d	efined)
	elba (thenyg)e				
5	echaracteristics			30A	
Chargin) Method	3-Sta	ge: cons	tant current(fast charging)-constant voltage-floating charge	
LOAD	Load	Load voltage		The same as the battery voltage	
Characteristics	Load rated current		40A		
	Load control mode		On\Off mode, PV voltage control mode, Dual-time control mode, PV + Time control mode		
Display &	Display mode			High-definition LCD segment code backlight display	
Communication	Communication mode		8-pin RJ	45 port/RS485/support PC software monitoring/support WiFi module to realize APP cloud monitoring	

	Protect function	Protect function Input-output over \ under voltage protection, Prevention of connection reverse protection, battery shedding protection etc.	
	Operation Temperature	-20°C~+50°C	
	Storage Temperature	-40°C~+75°C	
Other	IP(Ingress protection)	IP21	
Parameters	Max. connection size	20mm2	
	Net Weight (kg)	2.3	
	Gross Weight (kg)	3	
	Product Size[]mm[]	240*168*66	
	Packing Size(mm)	289*204*101	

Remark:

 Above is company's standard parameters; any modify please check our official website;
We can customize 72V / 96V and other unconventional MPPT controller to special customers, provide OEM and ODM services.