New Off grid 50A mppt controller 12V 24V 36V 48V auto work with APP monitoring



eSmart3 series is the third generation of eSmart mppt controller, based on eSmart1, eSmart2 series mppt controller, we update the display with back-light LCD display, load control way, connect way, internal structure, reduce the static standby self-consumption, energy saving and more simply for small system.etc. It features an efficient MPPT control algorithm to track the maximum power point of the PV array. Greatly improve the utilization of solar panel. Its intelligent LCD and upper PC display, mostly convenient for customers to check, records and parameter setting. It widely used in off-grid solar system, communication base station solar system, household solar systems, street light solar systems, field monitoring and other fields etc.

Choose eSmart3, more intelligent in life!

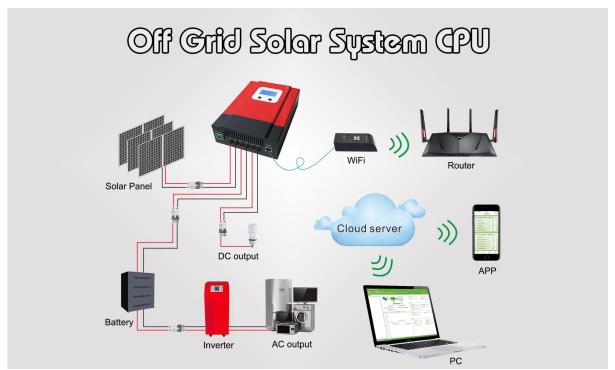




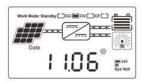
Features:

- 1.It has an efficient MPPT algorithm, MPPT efficiency ≥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.
- 11.2 years warranty, and 2~10 years extended warranty service also can be provided.

MPPT Controller connection diagram

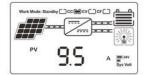


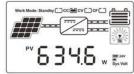
Parameters Display & Setting information



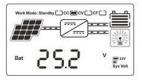




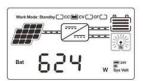




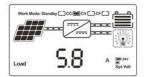






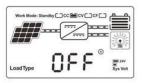


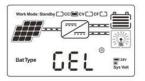


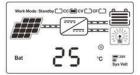










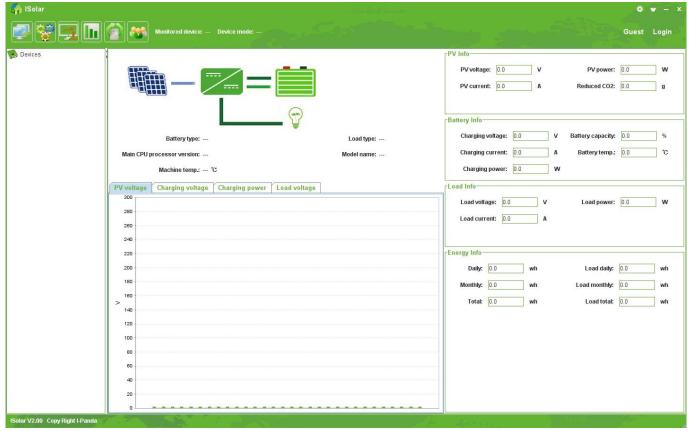


LCD display information



Set the battery type and LOAD control mode

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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

				<u> </u>	
		eSmart3 series	50A		
Product category		Controller Properties	MPPT (maximum power point tracking)		
	MPPT efficiency		≥99.5%	_	
	Standby power		0.5W~1.2W		
	System voltage		Automatic recognition		
	Heat-dissipating method		Intelligent fan cooling		
Input Characteristics			, ,		
	Max.PV input voltage(VOC) Low input voltage protection point		DC150V		
				Start the charge voltage point	Battery voltage + 3V
			Battery voltage + 2V	_	
		Over voltage protection point	DC150V		
	Rated PV power	12V system	650W		
		24V system	1300W		
		36V system	1950W		
		48V system	2600W		
		Selectable Battery Types	Sealed lead acid, Gel battery, Flooded		
	elba ûthæng je		eries also can be defined)		
	Chaunderistics 50A				
charging	method	nethod 3-Stage: constant current(fast charging)-constant voltage-floating charge		_	
	Load voltage		The same as the battery voltage		
LOAD Characteristics		Load rated current	60A		
Characteristics	Load control mode		On\Off mode, PV voltage control mode, Dual-time control mode, PV + Time control mode	=	
Display & Communication		Display mode	High-definition LCD segment code backlight display		
	Communication mode		8-pin RJ45 port/RS485/support PC software monitoring/ support WiFi module to realize APP cloud monitoring		
	Protect function		Input-output over \ under voltage protection, Prevention of connection reverse protection,battery shedding protection etc.		
	Operation Temperature		-20°C~+50°C	7	
	Storage Temperature		-40°C~+75°C		
Other	IP(Ingress protection)		IP21		
Parameters	Max. connection size		30mm2		
		Net Weight (kg)	2.6		
		Gross Weight (kg)	3.5		
		Product Size[mm[]	270*180*85		
		Packing Size(mm)	324*223*135		

Remark:

- $1.\ Above\ is\ company's\ standard\ parameters;\ any\ modify \verb||| please\ check\ our\ official\ website;$
- 2. We can customize 72V / 96V and other unconventional MPPT controller to special customers, provide OEM and ODM services.