New eSmart3 series MPPT solar controller 20A 30A 40A



eSmart3 series is the third generation of <u>eSmart mppt controller</u>, 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!







MPPT Solar Controller 12V24V36V48 50A-60A





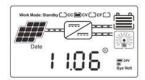
Features

- 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.

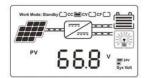
MPPT Controller connection diagram

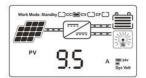


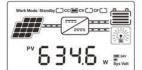
Parameters Display & Setting information



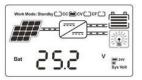






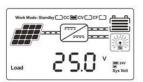


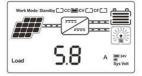


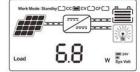


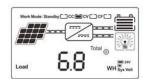


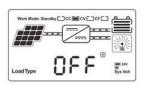




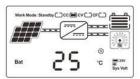








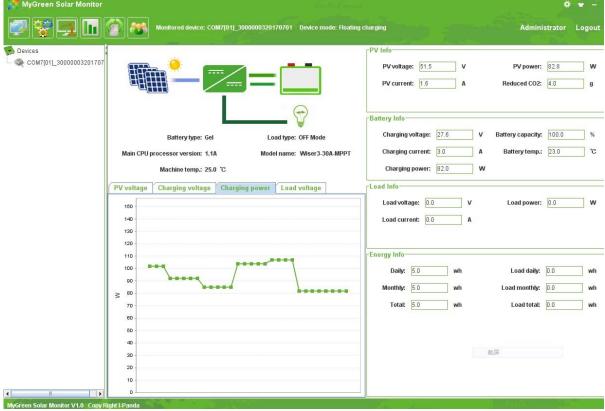






Set the battery type and LOAD control mode

Upper Computer Software & Test Software



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 series	40A		
1		Controller Properties	MPPT (maximum power point tracking)		
		MPPT efficiency	≥99.5%	1	
Product		Standby power	0.5W~1.2W	1	
category		System voltage	Automatic recognition		
		Heat-dissipating method	Intelligent fan cooling		
Input		Max.PV input voltage(VOC)	DC150V	Start the	Dath and the second
Characteristics	Low input voltage protection point		Battery voltage + 2V	charge voltage point	Battery voltage + 3V
l ⊢			DC150V		
l ⊢	Over voltage protection point				
1 1 .	Rated PV power	12V system	520W		
		24V system	1040W		
		36V system	1560W		
		48V system	2080W	<u></u>	
		Selectable Battery Types	Sealed lead acid, Gel battery, Flooded		
(Default Gel ba	attery)e		eries also can be defined)		
Charge rated	HRGeFistics	4	0A		
charging met	ethod 3-Stage: constant current(fast chargi		ging)-constant voltage-floating charge		
1045		Load voltage	The same as the battery voltage		
LOAD Characteristics		Load rated current	40A		
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	1	
	Storage Temperature		-40°C∼+75°C	1	
Other	IP(Ingress protection)		IP21		
Parameters	Max. connection size		20mm2		
	Net Weight (kg)		2.3	1	
		Gross Weight (kg)	3	1	
	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.