



Esmart series

- ✧ MPPT efficiency $\geq 99.5\%$
- ✧ High Definition LCD Display
- ✧ Suitable For all kinds of Batteries
- ✧ Support remote monitoring of PC and APP
- ✧ 8-pin RS485 communication
- ✧ CE/Rohs/FCC certifications Approved
- ✧ Multiple protection functions, overvoltage and overcurrent, etc



**Focus on the MPPT Solar Controller
More Professional, More Reliable**

Applicable scenarios



Off grid power system



communication
base station



Agricultural
power supply



Telecom Project

Product Size

eSMART Series		E20	E30	E40	E50	E60
Product Category						
MPPT efficiency		≥99.5%				
Standby power		0.5W~1.2W				
Heat-Dissipating method		Air-cooled				
System voltage		Auto				
Input Characteristics						
Max.PV input voltage(Voc)		DC150V				
Start charging voltage		Real-time battery voltage + 3V				
Low voltage protection		Real-time battery voltage + 2V				
Over voltage protection		150VDC				
Reted PV Power	12V system	260W	390W	520W	650W	780W
	24V system	520W	780W	1040W	1300W	1560W
	36V system	780W	1170W	1560W	1950W	2340W
	48V system	1040W	1560W	2080W	2600W	3120W
Charge Characteristics						
Battery types		Sealed(SEL),Gel(GEL),Flooded(FLD),User-defined(USER),Li-ion(LIT)				
Rated charge current		20A	30A	40	50A	60A
Temperature compensation		-3mV/°C/2V				
Charge method		3 stages: CC (Constant current) - CV (Constant voltage) - CF (Floating charge)				
Output voltage stability accuracy		≤±0.2V				
LOAD Characteristics						
Load voltage		Same as battery voltage				
Rated load current		40A		60A		
Load control mode		On/Off , PV voltage control mode, Dual-time control mode, PV + Time control mode				
Low voltage protection		10.5V (default), 11V (restored), settable				
Setting method		PC software / APP / Controller				
Display & Communication						
Display		HD LCD backlight display				
Communication		8 -pin RJ45 port / RS485 / support PC software monitoring / support WiFi module for APP cloud monitoring / support centralized parallel monitoring				
Other Parameters						
Protections		Input & output over-volt / low-voltage protection, reverse polarity protection, over-heating protection, battery shedding protection etc.				
Operating ambient temperature		-20°C~ +50°C				
Storage temperature		-40°C~ +75°C				
IP(Ingress protection)		IP21				
Max. Witing size		20mm²			30mm²	
N.weight /G.weight (KG)		2.3 /3			2.6 /3.5	
Product size /Packing size (mm)		240x168x66/289x204x101			270x180x85/324x223x135	