



**Esmart series**

- ★ MPPT efficiency ≥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
<b>Product Category</b>					
MPPT efficiency			≥99.5%		
Standby power			0.5W~1.2W		
Heat-Dissipating method			Air-cooled		
System voltage			Auto		
<b>Input Characteristics</b>					
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		
Rated PV Power	12V system	260W	390W	520W	650W
	24V system	520W	780W	1040W	1300W
	36V system	780W	1170W	1560W	1950W
	48V system	1040W	1560W	2080W	2600W
<b>Charge Characteristics</b>					
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				
<b>LOAD Characteristics</b>					
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				
<b>Display &amp; Communication</b>					
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				
<b>Other Parameters</b>					
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	20mm <sup>2</sup>			30mm <sup>2</sup>	
N.weight /G.weight (KG)	2.3 /3			2.6 /3.5	
Product size /Packing size (mm)	240x168x66/289x204x101			270x180x85/324x223x135	