

CHARACTERISTIC:

- ✧ MPPT efficiency $\geq 99.5\%$
- ✧ High Definition LCD Display
- ✧ Suitable For all kinds of Batteries
- ✧ Activation For Li-ion Batteries
- ✧ Support remote monitoring of PC and APP
- ✧ Support Dual RS485 communication
- ✧ Self-heating & IP65 high waterproof level
- ✧ Support Parallel Connection
- ✧ CE/Rohs/FCC certifications Approved
- ✧ Multiple protection functions, overvoltage and overcurrent, etc



Explorer series

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

Applicable scenarios



Off grid power system



communication
base station



Solar power island



Solar powered yacht

Explorer Product Size

Explorer Series		E4850	E4860
Product Category			
MPPT efficiency		≥99.5%	
Standby power		0.5W~1.2W	
Heat-Dissipating method		Self-Heating	
System voltage	Lead acid battery system	12V/24V/36V/48V Auto (Lead acid battery)	
	Lithium battery system	9VDC~60VDC	
	Lithium ion battery system can be set	8VDC~60VDC(Standard model) , ≤60VDC(Optional lithium battery activation function)	
Input Characteristics			
Max.PV input voltage(Voc)		150VDC	
Min.Vmpp Voltage		Battery voltage + 2V	
Start-up charging voltage		Battery voltage + 3V	
Low input voltage protection		Battery voltage + 2V	
Over voltage protection / Recovery		150VDC/145VDC	
Reted PV Power	12V system	650W	780W
	24V system	1300W	1560W
	36V system	1950W	2340W
	48V system	2600W	3120W
	Li-ion	630W~2520W	756W~3024W
Charge Characteristics			
Activation for lithium battery		Optional	
Battery types		Sealed(SEL),Gel(GEL),Flooded(FLD),User-defined(USER),Li-ion(LIT)	
Rated charge current		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		30A	
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		High-definition LCD segment code backlight display	
Communication		Dual 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)		IP65	
Max. connection size		28mm²	
Net Weight/Gross Weight (kg)		4.15 /5.5	
Product size /Packing size (mm)		290x220x88/410x328x193	
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