



Explorer —N series

- ✧ 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 & IP43 high waterproof level
- ✧ Support Parallel Connection
- ✧ CE/Rohs/FCC certifications Approved
- ✧ Multiple protection functions, overvoltage and overcurrent, etc

A large array of solar panels installed in a grassy field under a clear sky.

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

Applicable scenarios



Off grid power system



communication
base station



RV power



Solar monitor

Explorer -N Parameter

Explorer —N Series		EN2420	EN2430	EN2440	EN2450	EN2460	EN4820	EN4830
Product Category								
MPPT efficiency		≥99.5%						
Standby power		0.8W~1.5W						
Heat-Dissipating method		Automatic cooling						
Battery system		12Vsystem : 9VDC~15VDC	24Vsystem : 18VDC~30VDC	36Vsystem : 32VDC~40VDC	48Vsystem :			
Settable lithium-ion battery system		8VDC~30VDC					18VDC~60VDC	
Input Characteristics								
Max.PV input voltage(Voc)		100VDC					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		100VDC/95VDC					150VDC/145VDC	
Reted PV Power	12V system	260W	390W	520W	650W	780W	260W	390W
	24V system	520W	780W	1040W	1300W	1560W	520W	780W
	36V system	——	——	——	——	——	780W	1170W
	48V system	——	——	——	——	——	1040W	1560W
	Li-ion	252W~504W	378W~756W	504W~1008W	630W~1260w	756W~1512W	252W~1008W	378W~1512W
Charge Characteristics								
Activation for lithium battery		Optional						
Battery types		Sealed(SEL),Gel(GEL),Flooded(FLD),User-defined(USER),Li-ion(LIT)						
Rated charge current		20A	30A	40	50A	60A	20A	30A
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		20A	30A			20A		
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)		IP43						
Altitude		0~3000m						
Max. connection size		28mm²						
Recommended breaker		≥40A	≥ 63A	≥ 63A	≥ 100A	≥ 100A	40A	60A
Net Weight/Gross Weight (kg)		1.7 /2.03			2.4 / 2.83			
Product size /Packing size (mm)		220x148x58.8/289x212x105			245x170x68.5/334x255x123			