



## Explorer -N series

- ★ MPPT efficiency ≥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

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					
<b>Product Category</b>												
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 : 42VDC~60VDC	8VDC~30VDC	18VDC~60VDC						
<b>Input Characteristics</b>												
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					
	24V system	520W	780W	1040W	1300W	1560W	520W					
	36V system	—	—	—	—	—	780W					
	48V system	—	—	—	—	—	1170W					
	Li-ion	252W~504W	378W~756W	504W~1008W	630W~1260W	756W~1512W	1040W					
<b>Charge Characteristics</b>												
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											
<b>LOAD Characteristics</b>												
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											
<b>Display &amp; Communication</b>												
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											
<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)	IP43											
Altitude	0~3000m											
Max. connection size	28mm <sup>2</sup>											
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									