

Explorer—NS

MPPT

Solar charging controller

CE FC RoHS



High efficiency

- MPPT efficiency 99.5%,
- Conversion efficiency 97%



Stable operation

- All responsive design, more efficient, more stable

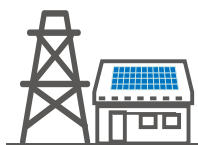


Intelligent compatibility

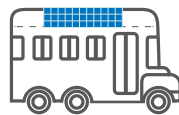
- OLED blue display status information
- Built-in lithium battery activation function
- Support lead-acid batteries, lithium batteries and all kinds of battery
- Protection function to maintain stable operation of battery or lead-acid battery system
- Support remote monitoring of PC, wired instrument, wireless module APP
- Dual RJ45 interfaces, integrated management and secondary development



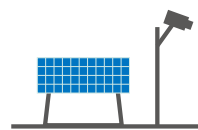
Off grid power system



Communication base station



Rv power supply



Solar monitoring

Explorer - NS Series		NS24L30	NS24L40	NS24H50	NS24H60	NS48H20	NS48H30
MPPT efficiency		99.50%					
Standby power		1.6W~1.8W					
Heat-Dissipating method		All aluminum alloy shell self-heating					
Settable lithium-ion battery system		8VDC~30VDC					
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		150VDC/145VDC	
Reted PV Power	12V system	420W	560W	700W	840W	280W	420W
	24V system	840W	1120W	1400W	1680W	560W	840W
	36V system	——	——	——	——	840W	1260W
	48V system	——	——	——	——	1120W	1680W
	Li-ion	432W~864W	576W~1152W	720W~1440W	864W~1728W	292W~1168W	432W~1728W
Charge Characteristics							
Activation for lithium battery		Standard					
Battery types		"Sealed(SEL),Gel(GEL),Flooded(FLD),User-defined(USER) AGM, LiFePO4 (4 Strings / 7 Strings / 8 strings), Ternary lithium battery (3 Strings / 6 strings / 7 strings) , Custom lithium ion battery (Lit) "					
		"Lithium iron phosphate battery (4 string / 7 string / 8 string), Ternary lithium battery (3 string / 6 string / 7 string), Custom Lithium-ion Battery (Lit)"				"Lithium iron phosphate battery(4 / 7 / 8 / 10 / 15 / 16 string) Ternary lithium battery (3 / 6 / 7 / 10 / 13 / 14 string),Custom Lithium-ion Battery (Lit)"t"	
Rated charge current		30A	40A	50A	60A	20A	30A
Temperature compensation		-3mV/°C/2V					
Charge method		3 stages: CC (Constant current) - CV (Constant voltage) - CF (Floating charge)				CC (Constant current) - CV (Constant voltage)	
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		Blue OLED 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~+70°C					
IP(Ingress protection)		IP42					
Altitude		0~3000m					
Max. connection size		28mm²					
Recommended breaker		≥63A	≥63A	≥ 100A	≥ 100A	≥ 40A	≥ 63A
Net Weight/Gross Weight (kg)		1.5 / 1.9		2.25 / 2.6			
Product size /Packing size (mm)		220x148x64/285x190x74		245x170x69/300x220x75			