

- 1□The tracking efficiency is as high as 99.5%.
- 2□Self-cooling, protection grade IP42.
- 3□Exquisite design, one-key setting and simple operation.
- 4□Four-stage charging to prolong battery life.

**FOCUS ON MPPT
SOLAR CHARGE CONTROLLER 11 YEARS
OFF-GRID CONTROLLER SOLUTIONS SPECIALIST**



**EXPLORER-NS series
MPPT SOLAR CHARGE CONTROLLER**
12V/24V / Auto
50A/60A

- ✓ Common negative pole
- ✓ Multiple parallel machines
- ✓ Lithium battery activation
- ✓ Smart/remote monitoring
- ✓ App/host computer software

QUALITY EXCELLENCE
pursuit of perfection



Common negative pole line



Aluminum alloy shell automatic heat dissipation



Lead acid/colloid/lithium iron phosphate can be selected



Lithium battery activation



High-definition LCD segment code backlight display




One key to set battery parameters

FASHION · APPEARANCE




SIMPLE OPERATION SCREEN
96V/192V/216V/240V/384V/ 50A~100A




Customizable logo
Status light
temperature sensor interface
PV solar panel interface
Battery interface
OLED display
function button
Dual RS485 interface Support APP, PC
DC output interface

Product color and some functions can be customized. We provide customized solutions

PRODUCT DIMENSIONS AND WIRING



power	size	long	width	high
30A/40A		220mm	148mm	64mm
50A/60A		245mm	170mm	68mm



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)"	
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		28mm ²					
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		