

NVWIN Series MPPT Solar Controller

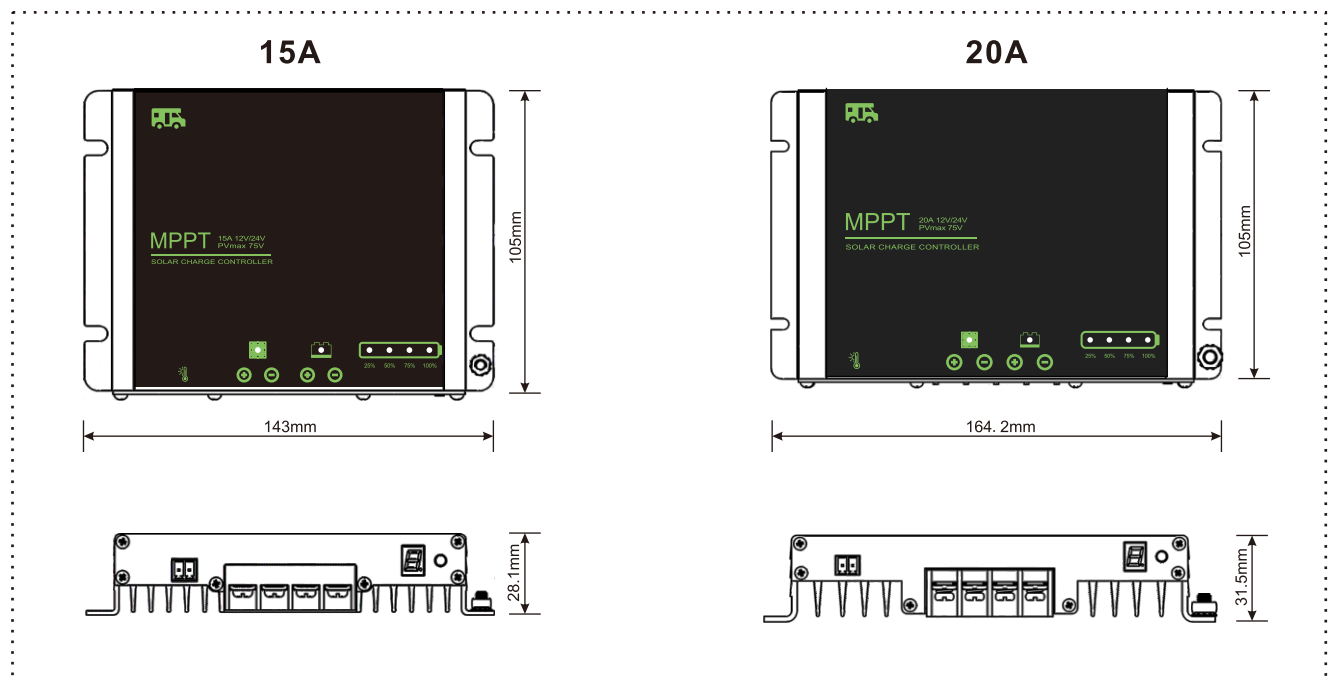
Product Introduction

NVWIN series solar controller is based on an advanced maximum power point tracking (MPPT) technology developed, dedicated to the solar system, the controller conversion efficiency up to 98%.

The controller can rapidly track the maximum power point(MPP) of PV array to obtain the maximum energy of the panel, especially in case of a cloudy sky, when light intensity is changing continuously, an ultra fast MPPT controller will improve energy harvest by up to 30% compared to PWM charge controllers.

Parameter

- 12/24V automatic recognition
- Innovative Max Power Point Tracking (MPPT) technology, tracking efficiency >99.9%
- Full digital technology, high charge conversion efficiency up to 98%
- LED indicator for easy to read charging state and battery information
- Liquid. Gel. AGM and Lithium battery for selection
- The separate ports for remote temperature sensor, make battery temperature compensation more accurate
- Four stages charge way: MPPT, boost, equalization, float
- Automatic over-temperature power reduction function
- Dual automatic restriction function when exceeding rated charging power and charging current
- Android APP version for Bluetooth communication
- Full automatic electronic protect function



Specification

	Item	NVWIN-15A	NVWIN-20A
Battery Parameters	Battery type	Gel, AGM, Liquid, Lithium (default: Gel)	
	System voltage	12/24V automatical recognition	
	Max charging current	15A	20A
	MPPT charging voltage	before boost or equalization charging stage	
	Boost voltage	14.0~14.8V/28.0~29.6V (default:14.5/29.0V@25°C)	
	Equalization voltage	14.0~15.0V/28.0~30.0V (default:14.8/29.6V@25°C)	
	Float voltage	13.0~14.5V/26.0~29.0V (default:13.7/27.4V@25°C)	
	Low voltage disconnect	10.8~11.8V/21.6~23.6V (default: 11.2/22.4V)	
	Low voltage reconnect	11.4~12.8V/22.8~25.6V (default: 12.0/24.0V)	
	Temperature compensation	-4.17mV/K per cell (Boost, Equalization), -3.33mV/K per cell (Float)	
	Charging target voltage	10.0~32.0V (Lithium, default: 14.4/28.8V)	
	Charging recovery voltage	9.2~31.8V (Lithium, default: 14.0/28.0V)	
	Low voltage disconnect	9.0~30.0V (Lithium, default: 11.0/22.0V)	
	Low voltage reconnect	9.6~31.0V (Lithium, default: 12.0/24.0V)	
Panel Parameters	Max volt on bat. terminal	35V	
	Max voltage on PV(-20°C)	75V *1	
	Max voltage on PV(25°C)	70V	
	Max input power	200/400W	260W/520W
	MPPT tracking range	(Battery Voltage+1.0V) ~Voc *0.9 * 2	
System Parameters	Max conversion efficiency	98.0%	
	Dimensions	143*105*28.1mm	164. 2*105*31. 5mm
	Weight	557g	706g
	Communication	BLE(Selectable)	
	Grounding	Negative grounding	
	Power terminals	10AWG (5mm2)	
	Ambient temperature	-20~+55°C	
	Storage temperature	-25~+80°C	
	Ambient humidity	0~100%RH	
	Protection degree	IP54	
	Max Altitude	4000m	

