



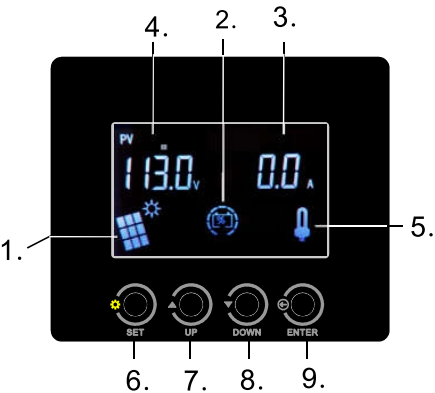
NVBS Series MPPT Solar Controller

Product Instration

MPPT (Maximum Power Point Tracking) Solar Charge Controller offer an efficient, safe, multi-stage recharging process that prolongs battery life and assures peak performance from a solar array. Each Charge Controller allows customized battery recharging.

Parameter

- a. 30A/40A/50A/ 80A/100A/120A/150A MPPT solar charge controller
- b. 12V/24V/48Vdc auto work, 48V/96Vdc auto work
- c. The latest MPPT algorithm automatically tracks the maximum power point of the solar panel
MPPT tracking efficiency is up to 99%, and conversion efficiency is up to 98% under the maximum benefit of energy collection conditions, fast charging, absorption charging, floating charging, etc.
maintain the battery life.
- d. Supporting lead-acid battery, Gel battery, lithium battery, user-defined battery
- e. With over charge, over discharge, overload, open circuit protection, over temperature protection, short circuit automatic protection



NO	LCD Display	Contents Descriptions
1	PV	PV Input symbol
2	Battery	Battery capacity
3	PV	PV Input Charge current
4	PV	PV Input voltage
5	DC OUTPUT	DC Output symbol
6		Set and exit button
7		UP button
8		DOWN button
9		Confirm button



Specification

Model		NVBS-30A	NVBS-40A	NVBS-50A	NVBS-60A	NVBS-80A	NVBS-100A	NVBS-120A	NVBS-150A
Default Battery System Voltage (VDC)		12VDC/24VDC/36VDC/48VDC (auto work), 48VDC/96VDC (auto work)							
Controller Input	PV Open Circuit Voltage	130VDC@12V, 130VDC@24V 160VDC@48V, 180VDC@96V					180VDC@48V 280VDC@96V		
	PV Array MPPT Voltage Range	15VDC~130VDC@12V, 30VDC~130VDC@24V 60VDC~160VDC@48V, 120VDC~180VDC@96V					60VDC~180VDC@48V 120VDC~280VDC@96V		
	Max PV Input Power(12V)	360W	480W	600W	720W	960W	1200W	1440W	1800W
	Max PV Input Power(24V)	720W	960W	1200W	1440W	1920W	2400W	2880W	3600W
	Max PV Input Power(36V)	1080W	1440W	1800W	2160W	2880W	3600W	4320W	5200W
	Max PV Input Power(48V)	1440W	1920W	2400W	2880W	3840W	4800W	5760W	7200W
	Max PV Input Power(96V)	/	/	4800W	5760W	/	9600W	11500W	14400W
Battery	Peak Conversion efficiency	98% (MPPT Efficiency 99%)							
	Max Charging Current	30A	40A	50A	60A	80A	100A	120A	150A
	Absorption Voltage	12.5VDC/25.0VDC/37.5VDC/50.0VDC/100VDC							
	Refloat Voltage	13.7VDC/27.4VDC/41.4VDC/54.8VDC/109.6VDC							
	Float Voltage	14.3VDC/28.6VDC/42.9VDC/57.4VDC/114.4VDC							
	Low Voltage Protection Point	10.0VDC/20.0VDC/30.0VDC/40.0VDC/80.0VDC							
DC output	DC Output Voltage Range	10.0VDC~14.5VDC / 20VDC~29.0VDC / 30.0VDC~43.5VDC / 40.0VDC~58.0VDC / 80.0VDC~116.0VDC							
	Max Output Current	20A (Max)							
	Low Battery Cut off	10.25VDC/20.5 VDC/30.75VDC/41.0VDC/82.0VDC							
	Under Voltage Shutdown	10.0VDC/20.0 VDC/30.0VDC/40.0VDC/80.0VDC							
	Under Voltage Recovery	12.6VDC/25.2 VDC/37.8VDC/50.4VDC/100.8VDC							
Display	content		PV Voltage, PV Power, Battery Voltage, Charging Current, Working Temperature, Fault Code						
	Code	N1	MPPT Tracking Mode						
		N2	Solar Input is too low						
		N3	Battery Limited Voltage Charging Mode						
		E1	The Internal Temperature of The Controller is too hig						
		E2	Automatic Identification Of Batter Voltage Level Failed						
		E3	Solar Input Voltage is too high						
		E5	Input Battery Voltage is too high						
		E6	Input Battery Voltage is too low						
		E7	Load Output Current Over current						
Other	Radiating mode		Fan cooling						
	Operation Temperature Range		-10~50°C						
	Ambient humidity		0~90% relative humidity (non-condensing)						
	Environmental Rating		Indoor						
	Communications		RS 485, WiFi (Optional)						
Appearance	Product Size (L*W*H mm)		250*180*85		270*190*100			370*278*130	
	Packing Size (L*W*H mm)		446*295*376		550*350*510			470*370*210	
	PCS/CTN		6	6	6	6	6	1	1
	Net Weight (kg)		1.8	1.8	3.2	3.3	3.7	8.0	8.5
	Gross Weight (kg)		12	12	19	20	24	10	11