




# SERIE NSC

## CONTROLADOR SOLAR PWM

Max  
**80A**  
Rated current

## All series support lithium battery

PWM INTELLIGENT CHARGING

-  Rated voltage: 12/24V Auto  
12/24V36V48V Auto
-  Rated current: 10A-80A
-  Battery 0 voltage, Solar panel end start



## PARAMETER

Solar Input	Model	10D	20D	30D	40D	50D	60D	80D
	Rated Current	10A	20A	30A	40A	50A	60A	80A
	Input Voltage	≤ 50V (12V/24VAuto)			≤ 100V (12V/24V/36V/48V Auto)			

Charge management	Lead-acid batteries	3-stage charging (bulk charge, absorption charge, float charge)					
		Lead-acid batteries	Sealed	GEL	Flood	USE1	
		Float Voltage	13.8V	13.8V	13.8V	13.8V(9~15Vadjustable)	
		Absorption Voltage	14.4V	14.0V	14.6V	14.4V(9~15Vadjustable)	
		Absorption time	2h				
		Raise recovery Voltage	12.6V				
		Charging limit voltage	15.5V				
		Temperature compensation	-4mV/cell/				
		Lithium batteries	3-stage charging (bulk charge, constant-voltage charge, stop charge)				
			Lithium batteries	3.7-3	3.7-4	3.2-4	3.2-5
	Constant voltage		12.6V	16.8V	14.4V	18.0V	14.4V(9~17Vadjustable)
	Cut-off charge current		20A(0.1~30Aadjustable)				
	Recovery charge voltage		12.0V	16.0V	13.6V	17.0V	13.6V(9~17Vadjustable)

Identify range	System voltage	Lead-acid batteries	Lithium Battery				
			3.7-3	3.7-4	3.2-4	3.2-5	USE2
	12V	≤ 17V	≤ 14.6V	≤ 18.8V	≤ 16.4V	≤ 20V	≤ 16.4V
	24V	≤ 30V	≤ 26.2V	≤ 34.6V	≤ 29.8V	≤ 37V	≤ 29.8V
	36V	≤ 40.8V	≤ 38.2V	≤ 50.8V	≤ 43.6V	≤ 54.4V	≤ 43.6V
48V	> 40.8V	> 38.2V	> 50.8V	> 43.6V	> 54.4V	> 43.6V	

Discharge Management	Batteries Type	Lead-acid batteries	Lithium Battery				
			3.7-3	3.7-4	3.2-4	3.2-5	USE1
	Low-voltage protection	10.7V(9~15V adjustable)	9.9V	13.2V	11.2V	14.0V	11.2V(9~17V adjustable)
	Low-voltage recovery	12.6V(9~15V adjustable)	11.1V	14.8V	12.8V	16.0V	12.8V(9~17V adjustable)
	Over-voltage protection	16.0V	18.5V				
Over-voltage recovery	15.5V	18.0V					
USB power	5V USB, the maximum output current is 2A						
Others	Max wire size	6mm <sup>2</sup> (AWG #9) / 16mm <sup>2</sup> (AWG#5) / 25mm <sup>2</sup> (AWG#3)					
	Working temperature	-20 ~50					
	Storage temperature	-30 ~70					
	Working humidity	10%~90%, no condensation					
	Dimension	WP20D:166*88*38mm		WP30D:187*98*50mm			
		WP50D:202*132*61mm		WP60D:202*132*61mm			
Weight	270g/370g/665g/730g						
Waterproof	IP30						

Note : Above parameters apply to system 12V as an example, if 24V/36V/48V system, the voltage parameter value should \*2/\*3\*4

Note : 10A/20 controller without temperature compensation /backlight function, without cut-off current.

b01 : Sealed battery    b02 : Gel battery    b03 : Flood battery  
b04 : Lithium battery custom type    b00 : Lead-acid battery custom type

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## CONTROLADOR SOLAR PWM

Max  
80A  
Rated current



### 80D

- Rated voltage: 12/24V AUTO 12/24V36V48VAUTO
- Rated current: 80A
- LCD with backlight display
- Charge discharge parameters can be set
- Battery 0 voltage, Solar panel end start
- Support lithium battery and a variety of battery solutions

### 60D

- Rated voltage: 12/24V AUTO 12/24V36V48VAUTO
- Rated current: 60A
- LCD with backlight display
- Charge discharge parameters can be set
- Battery 0 voltage, Solar panel end start
- Support lithium battery and a variety of battery solutions

### 50D

- Rated voltage: 12/24V Auto 12/24V36V48VAUTO
- Rated current: 50A
- LCD with backlight display
- Charge discharge parameters can be set
- Battery 0 voltage, Solar panel end start
- Support lithium battery and a variety of battery solutions



### 40D

- Rated voltage: 12/24V AUTO 12/24V36V48V AUTO
- Rated current: 40A
- LCD with backlight display
- Charge discharge parameters can be set
- Battery 0 voltage, Solar panel end start
- Support lithium battery and a variety of battery solutions



### 20D

- Rated voltage: 12/24V AUTO
- Rated current: 20A
- LCD with display
- Charge discharge parameters can be set
- Support lithium battery and a variety of battery solutions

### 30D

- Rated voltage: 12/24V AUTO 12/24V36V48V AUTO
- Rated current: 30A
- LCD with backlight display
- Charge discharge parameters can be set
- Battery 0 voltage, Solar panel end start
- Support lithium battery and a variety of battery solutions

### 10D

- Rated voltage: 12/24V AUTO
- Rated current: 10A
- LCD with display
- Charge discharge parameters can be set
- Support lithium battery and a variety of battery solutions



Rs232 OR RS485  
Serial  
communication port



### Optional remote monitoring function

When the controller is connected to the computer , all the working parameters can be displayed and set up in the software on PC. supported system: Windows XP .