



NV12V020

Description

Character :

1. Intelligence Optimization SOC control .
2. External temperature transmitter to compensate temperature .
3. Automatic protect against over charge , over discharge , electronic circuit , overload .
4. Taking series connection PWM charge as the main circuit , saving half charging loop voltage than the diode

charge .

5. LED shows the working state directly .

6. Adopt industry-specific chip , can running free under any cold , hot , humid circumstance .

Working mode setting

1 Setting methods: first press the switch button for 5 seconds until (mode) shows the figure , digital LED flash, then loosen the button, the number can be changed with each press, choose the number you need then wait until the LED digital do not twinkle , which is a complete setting .

2 Test mode: press the button until the LED figures shows 17 , which means the system is under test mode . when the controller feel there is no sunlight , it will turn on the load , then load begin to work; When feeling there is sunlight , it will turn off the load , then load stop working.This mode usually be used for testing the controller .

3 Light control mode : press the button until the LED figures shows 0 , which means the system is under light control mode . when the controller feel there is no sunlight for 10 minutes , it will turn on the load , then load begin to work; When feeling there is sunlight for 10 minutes , it will turn off the load , then load stop working . The 10 minutes delay is set for avoiding some misjudgment by some suddenly lights .

4 Light control + time control mode: Press the button at any figure from 1~15 , which means the system is under light control and time control mode . when the controller feel there is no sunlight for 10 minutes, it will turn on the load, then load begin to work; after (1~15 as you set) hours , the controller will turn off the load . It requires manul operation to restart the system after it worked (1~15 as you set) hours under this working mode .

5 Common controller mode : press the button until the LED figures shows 16 , which means the controller is just a common controller for charging and protection.This mode cancel the light control,time control ,10 minutes delay functions,The load can only be turned on or turned off manually .

Woking mode setting table :

O = open , C = close , (T) = test mode , without 10min delay .

Woking mode & LED figure		Woking mode & LED figure		Woking mode & LED figure	
Light control O+light control C	00	Light control O+7h working +C	07	Light control O+14h working +C	14
Light control O+1h working +C	01	Light control O+8h working +C	08	Light control O+15h working +C	15
Light control O+2h working +C	02	Light control O+9h working + C	09	Hand control O + hand control C	16
Light control O+3h working +C	03	Light control O+10h working +C	10	Light control O + Light control C (T)	17
Light control O+4h working +C	04	Light control O+11h working +C	11		
Light control O+5h working +C	05	Light control O+12h working +C	12		

Light control O+6h working +C	06	Light control O+13h working +C	13		
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Examples:

Mode 01:

When sunlight is off , controller waits for 10 min and then turns the load ON for 1 hour ,then turns the load OFF.

Mode 02:

When sunlight is off, controller waits for 10 min and then turns the load ON for 2 hours ,then turns the load OFF.

Mode 15:

When sunlight is off, controller waits for 10 min and then turns the load ON for 15 hours, then turns the load OFF.

Special modes:

Mode 00 (light control):

When sunlight is off ,controller waits for 10 min and then turns the load ON.

When sunlight is on ,controller waits for 10 min and then turns the load OFF.

Mode 16 (common controller) :

Controller turns the load ON no matter day or night without any delays.

The load is turned on or turned off manually .

Mode 17 (testing mode) :

When sunlight is off, the controller turns the load ON.

When sunlight is on, the controller turns the load OFF.

(This mode is similar to Mode 00, but works without 10 min delay)

Parameter :

Model	NV12V020
Maximum	20A
System voltage	12V or 24VDC
Low-voltage cut-off	10.5V or 21V
Over-charge voltage	13.7V or 27.4V
NO-load current draw	<100MA
Voltage drop from battery and load	0.3VDC
Operating temperature	-10°C~+40°C

Operating humidity	<90RH
Certificate	CE ,RoHS
Product size	16.5*10*4.4CM
Carton size	56.2*35.5*31CM
N.W	0.35KG
G.W	0.4KG
Packing	50pcs/CTN
Warranty	1 year

Working Display :

