NJ-FM001

Product use manual of Internet of Things solar insecticidal lamp controller

Xiamen Nengjia New Energy Technology Co., LTD

www.xmnengjia.com

Updated time: 2022.02.17

I. Product function and features

NJ-FM001 is the Internet of things solar insecticidal lamp controller, retain the advantages of traditional solar insecticidal lamp a green and zero pollution without trench wiring, on the basis of the Internet of things wireless transmission technology, through small program or PC remote control, wireless switch operation, automatic insect, rain control, light control, temperature control, time control, insecticidal lamp positioning and operation status monitoring.Pesticide lamp can be applied in agriculture, forestry, tea garden, orchard, aquaculture, animal husbandry and other scenarios.

Main performance characteristics of the controller:

● Support system control mode: rain control, light control, time control, temperature control.

● Remote controller is connected by the 4G module.

● Remote firmware update, one-click remote operation and maintenance.

● Real-time monitoring of solar panel charging voltage, current, battery charge and discharge voltage, current, load discharge voltage, current and other system parameters and equipment status.

● Computer terminal interface and mobile terminal wechat small

program remote control and information reading.

● You can remotely switch the load to adjust the power of the load.

● Read the voltage / current / power of the battery / load / solar plate

inside the controller.

● Remote distribute and read parameters for multiple or single

controllers.

● The module has GPS positioning function, tilt monitoring, infrared

counting, automatic insect dumping.

II. Appearance size

III. Technical parameter

open circuit losses	10mA(12V);6mA(24V)
working temperature	-35°C ~ 65°C
levels of protection	IP68
size (mm)	72mmx66mmx21mm
Antenna type	outlay
communication mode	4G Cat.1
carrieroperator	Three netcom
service voltage	12V/24V

IV. Status indication

pilot lamp	state	function declaration
Network indicator light (green)	Very slow (bright for 0.3s, dead for 5s)	No SIM cards were detected

Network indicator light (green)	Slow flash (bright 0.3s, out 2s)	Normal, boot
	Medium flash (bright 0.3s, out 1s)	Connecting the network
	Flash flash (bright 0.1s, out 0.1s)	The network is connected

V. Mode of connection
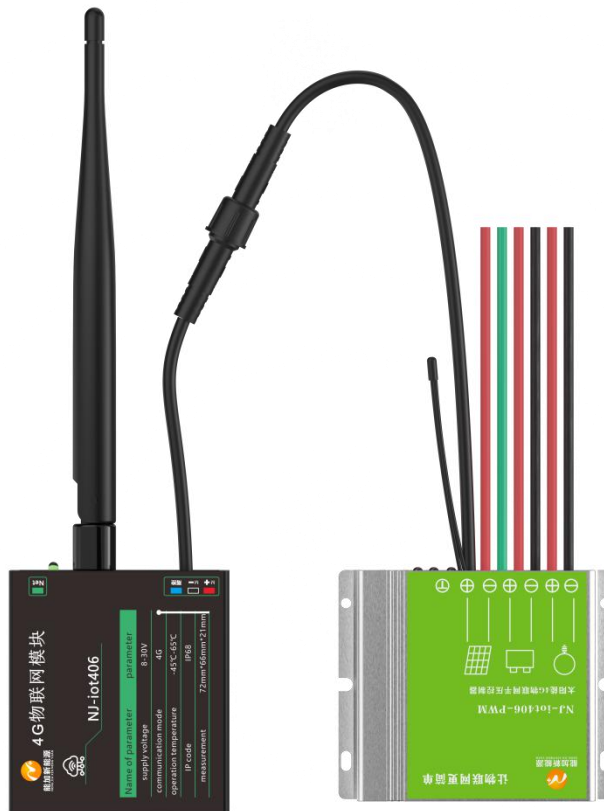
For safety, follow the wiring order of load, battery and photobattery.

* Antenna should avoid being directly connected with metal (including articles with shielded function), and should not be placed in a completely closed iron container.In addition, installation should be firmly, and avoid line scratches and insulation damage.

a) connected load

At this time, the controller has not started working, and the controller does not react after the connection is completed.

b) Connect the battery

Before connecting the battery, ensure that the battery voltage is above 9V to start the controller.If the system is 24V, ensure that the battery voltage is not less than 18V.When the battery connection is complete, the controller will start working.

c) Connect the optical panel

The controller can be applied to 12V or 24V standard specification solar modules, or to solar cell modules with an open circuit voltage not exceeding the specified maximum input voltage.The maximum power point voltage of the solar module should not be lower than the battery voltage.

d) The four-core wire of the controller is connected to the four-core wire of the module to observe the module indicator lamp.Fast flash for online.

e) Rain control

Two blue lines on the module connect to the rain control, and the two-wire guide controller stops working.

f) Connect antenna

Attach the antenna to the housing and connect the machine through the antenna extension

VI. Technical support

www.xmnengjia.com