8019(G)

Remote control instruction manual



1, remote control function:

■ Wireless infrared /2.4G remote control can be used to set the company's solar controller series products.

■LCD display, display the set parameters and data, as well as the status of the controller

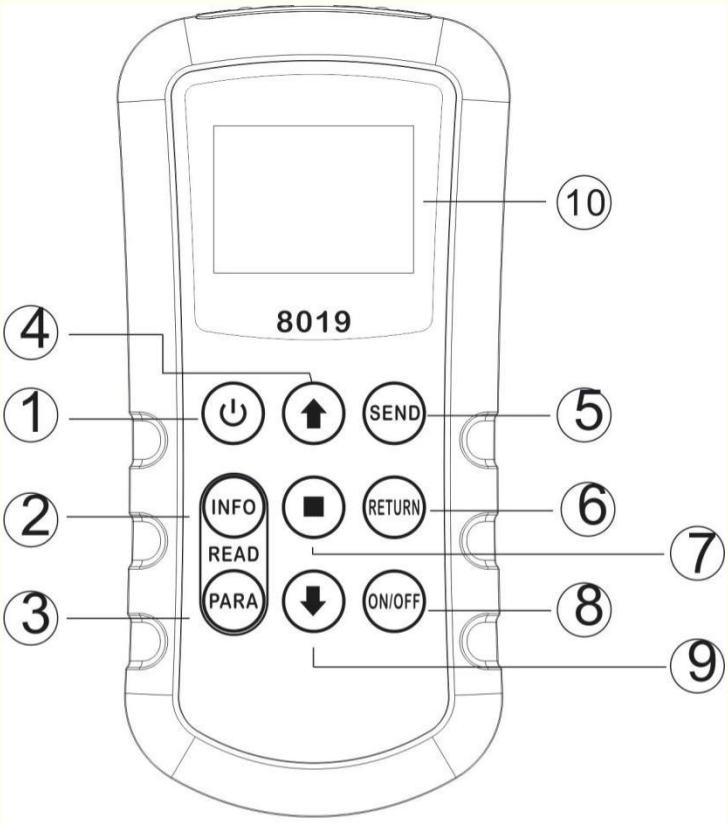
■5 minutes of automatic sleep without operation

■ Accurate and fast data transmission

■ Use two No. 5 batteries

■ Battery level indication

2. Screen printing of remote control:



1. POWER KEY
2. INFO KEY
3. PARAMETER KEY
4. UP KEY
5. SEND KEY
6. RETURN KEY
7. SETTING KEYS
8. ON/OFF KEY
9. DOWN KEY
10. DISPLAY

3、 Key instructions

1） Power button: remote control power on and off key, any time press this key to power on or off.

2) Read status key: press this key in any state can read the operating status of the controller, in the infrared transmission use need to align the direction of the controller receiving head, read successful will ring, display the current read status; If the read fails, it will be three short sounds (if there is no display of the unread state, it proves that the controller has not been read).

Read parameter key: Before reading the parameters in the controller, fill in the system Settings: Product type (M3/P3/M12/P12); Communication mode (infrared /2.4G); Working mode (single /ABC) These three parameters, if you do not know these three parameters, the readable state, can be found in the state. In any state, press this key to read the parameter Settings of the controller. When using the infrared transmission, it is necessary to align the direction of the receiving head of the controller. If the reading succeeds, a long sound will be made to display the parameters currently read; If the read fails, it will make three short chirps.

3) ↑ and ↓ keys: When the menu is displayed, press these two keys to select different menus; In the submenu, you can move to the position of the parameter to be modified (long press to move continuously), press the confirm key parameters blink, then press the up and down key to modify the parameter (long press to continuously add or subtract), and then press the confirm key again to confirm. In the running status display, press the two keys to turn to the previous page or the next page status display.

4) Sending key: After setting the parameters, press this key in the direction of the receiving head of the controller when the infrared is sent, the three LED lights on the controller will blink twice, and the remote control will ring for a long time, showing OK, if the sending fails, it will ring for three short times, indicating failure. The remote control can only send parameters in the parameter setting menu, otherwise press this key is invalid.

5） Back key: Press this key when you are in a submenu to return to the main menu.

6) Confirm key: Press this key when in the main menu to enter the currently selected submenu; In the submenu, press this key to enter the parameter setting of the current option, the parameter enters the blinking state, and then press this key to determine the set parameters after the completion of setting parameters, and set parameters to exit blinking.

7) On key: Press this key to open and close the controller, which is convenient to turn off the controller during transportation. Resetting the controller can also turn the controller on.

4、 Special operating instructions:

1) Lock unlocking operation: long press the key in the lower right corner for 5 seconds, release the button, it will lock or unlock, the upper left corner of the LCD corresponding display of unlocking or locking pattern, remote control will ring a long sound, indicating successful operation. This operation is invalid when the parameter is in the setting state. Pressing the Settings key to set parameters and read parameters in the locked state is invalid. Read status and send parameters only.

2) Controller model selection: Enter the system setting submenu, move the display to 2 product type, press the confirm key to enter the setting, there are four controller product types, namely M3,P3,M12,P12. The parameters can be read and set only when the product type of the

controller is the same as that set by the remote control, otherwise it is invalid. When you do not know the controller product type, press the read status key to read the status of the controller, the first item in the status bar is the product type of the current controller, and the product type of the remote control can be set according to this type.

5、 Note:

1） Remote control can only be operated one to one, please do not operate multiple controllers at the same time.

2) When the battery symbol appears low power, please replace the battery in time when it is blinking.

3) Please take out the battery when it is not used for a long time.

6. Icon Description:

			
Remote control battery power	Sending symbol	Key Lock status	Key lock release

7, the main menu description:

There are 3 submenus in the main menu of the remote control, which are system setting, temperature protection, and parameter setting. Move the display to the corresponding submenu and press the Confirm key to enter the submenu setting.

8, submenu setting instructions:

1) SYSTEMSET/ System Settings

Serial number	Item name	Project options
01	LANGUAGE	中文 /ENG
02	MODEL	M3/P3/M12/P12 Note: M3: MPPT 3V, 6V battery system P3: PWM 3V, 6V battery system M12: MPPT 12V, 24V battery system P12: PWM 12V, 24V battery system
03	CON TYPE	INFR /2.4G Note: Infrared: Infrared remote control communication 2.4G: 2.4G remote control communication
04	DISTANCE	LOW/NEAR/MID/FAR Note: LOW: 3-5 meters NEAR: 5-10 meters MID: 10-15 meters FAR: 15-30 meters

05	WORKMODE	ONE/ABC Note: ONE: Single working mode ABC: Three working modes A, B and C
06	RC VER	G2.9

Note: Communication distance is only valid for 2.4G communication mode; The current product type supports four products, respectively M3,P3,M12,P12 four kinds. The version number is the version number of the remote control software, so that it can be identified when updating the software.

2) TIME SET/ Set Time

Serial number	Parameter name	Parameter Description	Default Values	Parameter range
01	UTC SET	Time zone refers to the standard time zone used by each country or region itself.	8	-12 - 14
02	START S	Is it necessary to set a timer for turning on the lights?	N	Y / N
03	START T	The time set for the automatic lighting activation when it is turned on	12	0 - 24
04	STOP S	Is it necessary to turn off the lights at regular intervals?	N	Y / N
05	STOP T	When the lights are turned on and then turned off at the set time, the time when the lights were turned off is recorded.	12	0 - 24

This parameter is mainly for controllers with timing function, as it is necessary to accurately set the timing for turning on and off the lights. For controllers without timing function, this parameter is of no use.

3) PARAMETER/ Parameter Settings

General parameter setting, about the voltage description there are 2 parameters, the front is for 12.8V battery, the rear parameter is for 3.2V battery

Serial Number	Name	Data range	Name description	Units	Default
01	OVER VOL	0-9/0-90	Overcharge protection voltage	Volts	14.5/3.65
02	OVER RES	0-9/0-90	Return the charge voltage after overcharging	Volts	14.2/3. 5
03	OVERFALL	0-9/0-90	Overdischarge protection voltage	Volts	11.2/2.8
04	OVER R	0-9/0-90	Overdischarge return voltage	Volts	12/3.0
05	SOLARVOL	0.5-20	Light control on light voltage	Volts	5/2.5
06	DELAYCTR	1-180.	Light-controlled delay time	seconds	10
07	SAVE CTR	Yes/No	Power saving control management		Y

08	SAVE STA	0-9/0-90	Save power starting voltage	Volts	12.8/3.2
09	SAVE TER	0-9/0-90	Super power saving operating voltage	volt	11.2/2.9
10	2 SEASON	Yes/No	Lower power use during winter		N
11	WIN NIGH	8-15	Length of winter night time	Hours	12
12	WIN POW	30-100.	The power ratio of winter lights	%	60
13	DELAY UN	1-180.	1-180 seconds Delay the long time from someone to nobody	seconds	20
14	CURRENTS	0.1-9	Maximum current when lighting	Amperes	1

The remote control can set A,B,C three different light output mode, and each mode can be set time control output mode and induction output mode. Each mode can set six period output power and a morning bright output power.

CONSTANT/ Time control output mode:

Serial Number	Name	Data range	Name description	Units	Default
01	1ST TIME	0-15H	First working session time length	H	1
02	1 POWER	0-100%	First working hour power	%	100
03	2ST TIME	0-15H	Second working session time length	H	1
04	2 POWER	0-100%	Second working period power	%	80
05	3ST TIME	0-15H	Third working session length of time	H	1
06	3 POWER	0-100%	Third working period power	%	60
07	4ST TIME	0-15H	Fourth working session time length	H	1
08	4 POWER	0-100%	Fourth working period power	%	45
09	5ST TIME	0-15H	Fifth working period time length	H	2
10	5 POWER	0-100%	Fifth working period power	%	30
11	6ST TIME	0-15H	Sixth working session time length	H	7
12	6 POWER	0-100%	Sixth working period power	%	25
13	MORNING	0-3H	Morning light working time length	H	1
14	MOR. POW	0-100%	Output power during	%	40

			morning bright operation		

SENSOR/ Induction output mode:

Serial number	Name	Data range	Name description	unit	Default
01	1ST TIME	0-15H	First working session time length	H	1
02	1 POWER	0-100%	First working period power	%	100
03	1 UNMAN	0-100%	Output power when no one is present during the first working period	%	30
04	2ST TIME	0-15H	Second working session time length	H	1
05	2 POWER	0-100%	Second working period power	%	80
06	2 UNMAN	0-100%	Output power when no one is present during the second working period	%	24
07	3ST TIME	0-15H	Third working session length of time	H	1
08	3 POWER	0-100%	Third working period power	%	60
09	3 UNMAN	0-100%	Output power when no one is present during the third working period	%	18
10	4ST TIME	0-15H	Fourth working session time length	H	1
11	4 POWER	0-100%	Fourth working period power	%	45
12	4 UNMAN	0-100%	Output power when no one is present during the fourth working period	%	14
13	5ST TIME	0-15H	Fifth working period time length	H	2
14	5 POWER	0-100%	Fifth working period power	%	30
15	5 UNMAN	0-100%	Output power when no one is present during the fifth working period	%	9
16	6ST TIME	0-15H	Sixth working session time length	H	7
17	6 POWER	0-100%	Sixth working period power	%	25
18	6 UNMAN	0-100%	Output power when no one is present during the sixth	%	8

			working period		
19	MORNING	0-3H	Morning light working time length	H	1
20	MOR. POW	0-100%	Output power during morning bright operation	%	40
21	M. UNMAN	0-100%	Output power when no one is present during morning bright working hours	%	12

9. RUN INFO/ Operation information description:

Serial Number	Name	Name Description	Units
01	MODEL	Model number of the controller product for system setup	
02	RUN DAYS	Total number of days the controller has been running	D
03	BAT VOL	The current battery voltage	V
04	OVERFALL	Total number of current overshoot protection	N
05	CHARGED	The total number of times the battery has been charged	N
06	LED VOL	Current LED load output voltage value	V
07	LED CURR	Current output of LED load end	A
08	SOLARVOL	The current voltage of the photovoltaic panel (only valid when charging)	V
09	CHARGE C	Charge current when charging during the day (only valid with MPPT controller)	A
10	RUN MODE	The controller is currently running on charge, light output or idle mode. Individually expressed as "CHAR/LED/IDLE"	
11	RUN TYPE	Controller running light output working mode ABC/ONE Note: 1. When you read one of A/B/C, it is the ABC pattern. 2. When you read ONE, it proves to be a single pattern.	
12	PRODUCT	Version number of the controller	
13	TEMPATURE	Temperature sensor temperature of the controller, displayed when there is no temperature sensor -- (only MPPT controller has temperature display)	
14	POWER(ONLY Utility power complementary type)	Indicate whether the current controller is powered by battery or mains electricity. 1. BAT. Currently, it is powered by the battery. 2. AC. Currently, it is powered by the mains electricity supply.	
15	AC VOL(ONLY Utility power complementary type)	Display the voltage of the current mains power supply	

16	CLOCK(Only supports controllers with timing function)	Display the current time in the local time zone that the controller has received.	

Infrared small remote control description:

1、 Single working mode small remote control (infrared communication) :

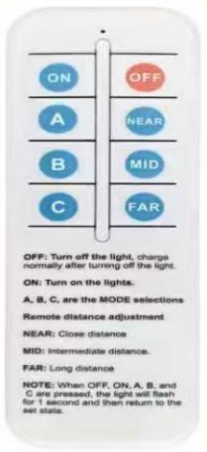


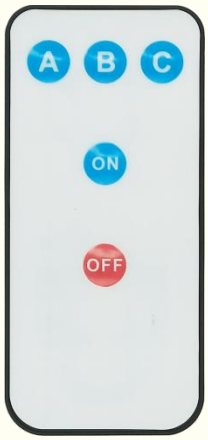
Small switch remote control (size: 86MM*40MM*6.8MM)

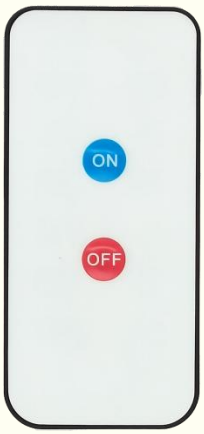
*ON key: Press this key and the system will enter the light on mode.

*OFF key: Press this key, the system turns to the light off mode, the light is no longer on at night, and it can still charge normally during the day.

2、 A B C three working modes infrared /2.4G small remote control (infrared /2.4G communication) :







A B C small remote control (size: 86MM*40MM*6.8MM)

*ON key: Press this key to switch to the normal working mode when the light is turned OFF (this mode is the mode before the last time to press the OFF key to turn off the light, such as the last time to press the OFF key before running the B working mode, it will be restored to the B working mode, with memory function).

*OFF key: Press this key, the system turns to the light off mode, the light is no longer on at night, and the normal charging can still be done during the day.