

The remote control CU-ALL

User Manual

Main features

1. Wireless IR remote control Can set up all SRNE solar street lamps controllers.
2. The data communications base on the multiple handshake protocol and compression algorithm which made the data transfer fast and accurate.
3. Work on two batteries (Model: AA).
4. LCD indicator shows the parameter and data.
5. The remote control will enter intelligent sleep state after One min no any operate, and press any key to resume.
6. Low-energy sleep mode, less than 0.1uA.
7. Fast wake-up function.
8. Battery capacity indicator.
9. Emergency light and hazard lights.
10. with ergonomic design, suitable for the hand-held operation.

Panel graphics



Key operate instruction

KEY	Key name	ExecutiVe function	Long press key function	
Setting area	+	A.menu page down B.increase the setting data	Continuous increase the setting data	
	-	A.menu page up B.decrease the setting data	A.Continuous decrease the setting data B.Cooperate with "lighting" button to return to the model selection interface	
	set	Parameter setting	-	
Functional area	Send	Working parameter send	-	
	receiVe	state	Running state receiVed	-
		parameter	Working parameter receiVed	-
	Test	Send the test order	-	
	Backlight	Backlight on	-	
Light	A、 the emergency light on B、 switch the hazard light	Combine with "+"key to locking the parameter		

Instruction

1. Install Battery: please install two batteries (Size: AA). Pay attention to the "+" and "-", in case of reVerse connection.
2. Power on: press any key to start up, then the remote control be rouse and executiVe the function under the key u press.
3. Power off: System will power off automatically then enter intelligent sleep state after 1min later no any operate.
4. Browse the parameter: after power on, press "+" and "-"key can browse the parameter preset before.
5. Model Selection: after power on, Press the "+" "-" key to highlight the stays on the models to choose, then short press "set" key to confirm, remote control will shedding for 1 second, then enter into the "parameter setting" interface.
6. Modify the parameters: Browse to the parameter which u want to set, press "set" key, the data begin flash, then press "+" and "-"key to adjust. Setting oVer, press the "set" key to confirm.
7. Sending parameter: After all the parameters are set up, aim at the solar charge controller and press the "send" key. If sending successfully, three LED lights of the controller will flash, at the same time the remote control will keep a long sound; If failed, the remote control will keep three short sound and prompt deliVery failure.
8. Read the state: aim at the solar controller and press the "state" key, the remote control will read the running state of the controller, If reading successfully, the remote control will keep a long sound and store the data; If failed, the remote control will keep three short sound and will show the old status.
9. Read the parameter: aim at the solar controller and press the "parameter" key, the remote control will read the setting Value of the controller. If reading successfully, the remote control will keep a long sound and store the data(if press the "send" key now, the store parameter will be send immediately) ; If failed, the remote control will keep three short sound and will show the parameter which u are in setting.
10. Backlight: Press the "backlight" key, the backlight of the LCD will be on which suitable use in poor light.
11. Light: Press the "light" key, the emergency light will be on. Press again will switch to the hazard light. Press the key the third time, the light will be off.
12. Test: Aim at the solar controller and press the "test" key, the load will be on, then the power of the load will match with the remote control. Press the "test" key seVeral times, the output power of the load will range to 100%,70%,50%,30%,0%.The controller will work on 1min under the test mode, after 1 min will enter the normal work mode.
13. Lock key: Press "+" and "light" key at the same time more than 3s,the remote control keep two short sounds, then the "set" and "Parameter" key will be lock to preVent carelessness ensure the correct Value. Press the "+" and "light" again at the same time more than 3s to unlock.
14. Return to the interface of model selection:No matter which interface, after pressing "-" and "light" button for 1 second, after short sound 2 seconds of the remote control, it will return to "model selection" interface.
15. The remote control setting up the solar charge controller one to one. Could not set up seVeral controllers at the same time.
16. Open the backlight the lights will decrease the battery energy.
17. When appear the low power sign, please replace the battery in time.
18. When out of serVice for long period, the battery should be taken out.

Sign instruction

Remote control energy	sending	Sent successfully	Sent failed	Test mode	Key lock	Key unlock

Hummer respond

Hummer respond	Instruction
--- (three short sounds)	Sent failed
— (a long sound)	Sent successfully
— — (two long sounds)	Restores factory default Values
-- (two short sounds)	Key lock
- (a short sound)	Key Unlock

The parameter setting

1. MPC/MPC-U Lead-acid battery interface

Item	Name abbreviation	data scope	Name describe	step-length	unit	Factory Default Value
a	BatType	Lead, Li12, Li24	Battery type choosing	1	V	Lead
b	1stTime	0 ~ 15H	The first working time	1H	Hour	4 Hour
c	1stPower	0 ~ 100%	The first working time power	10%	Power (percentage)	100%
d	2ndTime	0 ~ 15H	The second working time	1H	Hour	0 Hour
e	2ndPower	0 ~ 100%	The second working Time power	10%	Power (percentage)	70%
f	3rdTime	0 ~ 15H	The third working time	1H	Hour	4 Hour
g	3rdPower	0 ~ 100%	The third working Time power	10%	Power (percentage)	50%
h	MorTime	0 ~ 15H	Morning light working time	1H	Hour	0 Hour
i	MorPower	0 ~ 100%	Morning light working time power	10%	Power (percentage)	30%
j	L-Con-V	5 ~ 15V	Light control Voltage	1V	Volt	10V
k	L-Con-DT	1 ~ 50Mins	Light control delay time	5M	Mins	1min
l	LED-Cur	0.15~ 6.0A	LED load current	0.03A	A	0.90A
m	SmartPow	Yes/No	Smart power control	1	No: Off Yes: On	No
n	Over-DV	7.5 ~ 17V	oVer-discharging protected Voltage	0.1V	Volt	11.0V
o	Over-DRV	7.5 ~ 17V	oVer-discharging recoVer Voltage	0.1V	Volt	12.6V
p	Boost-CV	7.5 ~ 17V	Ascending charging Voltage	0.1V	Volt	14.4V
q	Float-CV	7.5 ~ 17V	Float charging Voltage	0.1V	Volt	13.8V
r	Re-Deflt	Yes/No	Restores factory default Values	1	Yes: On No: Off	No

Notes: Boost-CV > Float-CV > Over-DRV > Over-DV

2. MPC/MPC-U Lithium battery interface, lithium12 or lithium 24.

Item	Name abbreviation	data scope	Name describe	step-length	unit	Factory Default
a	BatType	Lead, Li12, Li24	Battery type choosing	1	V	Lead
b	1stTime	0 ~ 15H	The first working time	1H	Hour	4 Hour
c	1stPower	0 ~ 100%	The first working time power	10%	Power (percentage)	100%
d	2ndTime	0 ~ 15H	The second working time	1H	Hour	0 Hour
e	2ndPower	0 ~ 100%	The second working Time power	10%	Power (percentage)	70%
f	3rdTime	0 ~ 15H	The third working time	1H	Hour	4 Hour
g	3rdPower	0 ~ 100%	The third working Time power	10%	Power (percentage)	50%
h	MorTime	0 ~ 15H	Morning light working time	1H	Hour	0 Hour
i	MorPower	0 ~ 100%	Morning light working time power	10%	Power (percentage)	30%
j	L-Con-V	5 ~ 15V	Light control Voltage	10V	Volt	10V
k	L-Con-DT	1 ~ 50Mins	Light control delay time	5M	Mins	1min
l	LED-Cur	0.15~ 6.0A	LED load current	0.03A	A	0.9A
m	SmartPow	Yes/no	Smart power control	1	Yes: On No: Off	No
n	Chg-P	Yes/no	Charging protection	1	Yes: On No: Off	No
o	Chg-Mode	PWM/DC	Charging mode control	1	PWM: PWM Charging DC: Direct Chging	PWM
p	Over-DV	7.5~16V	oVer-discharging protected Voltage	0.1V	Volt	10.0V
q	Over-DRV	7.5~16V	oVer-discharging recoVer Voltage	0.1V	Volt	12.0V
r	Over-CV	7.5~16V	Over-charging Voltage	0.1V	Volt	14.6V
s	Over-CRV	7.5~16V	oVer-charging recoVer Voltage	0.1V	Volt	13.6V
t	Re-Defalt	Yes/no	Restores factory default Values	1	Yes: On No: Off	No

Notes: Over-CV > Over-CRV > Over-DRV > Over-DV

3. DH/DH-LI/DL/MH Lead-acid battery interface

Item	Name abbreviAtion	data scope	Name describe	step-length	unit	Factory Default Value
a	BatType	Lead, Li12,Li24	Battery type choosing	1	V	Lead
b	1stTime	0 ~ 15H	The first working time	1H	Hour	4 Hour
c	1stPower	0 ~ 100%	The first working time power	10%	Power (percentage)	100%
d	2ndTime	0 ~ 15H	The second working time	1H	Hour	0 Hour
e	2ndPower	0 ~ 100%	The second working Time power	10%	Power (percentage)	70%
f	3rdTime	0 ~ 15H	The third working time	1H	Hour	4 Hour
g	3rdPower	0 ~ 100%	The third working Time power	10%	Power (percentage)	50%
h	MorTime	0 ~ 15H	Morning light working time	1H	Hour	0 Hour
i	MorPower	0 ~ 100%	Morning light working time power	10%	Power (percentage)	30%
j	L-Con-V	5 ~ 11V	Light control Voltage	1V	Volt	5V
k	L-Con-DT	1 ~ 50Mins	Light control delay time	5M	Mins	1min
l	LED-Cur	0.15~ 6.0A	LED load current	0.03A	A	0.90A
m	SmartPow	Yes/No	Smart power control	1	No: Off Yes: On	No
n	Over-DV	7.5 ~ 17V	oVer-discharging protected Voltage	0.1V	Volt	11.0V
o	Over-DRV	7.5 ~ 17V	oVer-discharging recoVer Voltage	0.1V	Volt	12.6V
p	Boost-CV	7.5 ~ 17V	Ascending charging Voltage	0.1V	Volt	14.4V
q	Float-CV	7.5 ~ 17V	Float charging Voltage	0.1V	Volt	13.8V
r	Re-Deflt	Yes/No	Restores factory default Values	1	Yes: On No: Off	No

Notes: Boost-CV > Float-CV > Over-DRV > Over-DV

4. DH/DH-LI/DL/MH Lithium battery interface, lithium12 or lithium 24.

Item	Name abbreviAtion	data scope	Name describe	step-length	unit	Factory Default
a	BatType	Lead, Li12,Li24	Battery type choosing	1	V	Lead
b	1stTime	0 ~ 15H	The first working time	1H	Hour	4 Hour
c	1stPower	0 ~ 100%	The first working time power	10%	Power (percentage)	100%
d	2ndTime	0 ~ 15H	The second working time	1H	Hour	0 Hour
e	2ndPower	0 ~ 100%	The second working Time power	10%	Power (percentage)	70%
f	3rdTime	0 ~ 15H	The third working time	1H	Hour	4 Hour
g	3rdPower	0 ~ 100%	The third working Time power	10%	Power (percentage)	50%
h	MorTime	0 ~ 15H	Morning light working time	1H	Hour	0 Hour
i	MorPower	0 ~ 100%	Morning light working time power	10%	Power (percentage)	30%
j	L-Con-V	5 ~ 11V	Light control Voltage	10V	Volt	5V
k	L-Con-DT	1 ~ 50Mins	Light control delay time	5M	Mins	1min
l	LED-Cur	0.15~ 6.0A	LED load current	0.03A	A	0.9A
m	SmartPow	Yes/no	Smart power control	1	Yes: On No: Off	No
n	Chg-P	Yes/no	Charging protection	1	Yes: On No: Off	No
o	Chg-Mode	PWM/DC	Charging mode control	1	PWM: PWM Charging DC: Direct Chging	PWM
p	Over-DV	7.5~16V	oVer-discharging protected Voltage	0.1V	Volt	10.0V
q	Over-DRV	7.5~16V	oVer-discharging recoVer Voltage	0.1V	Volt	12.0V
r	Over-CV	7.5~16V	Over-charging Voltage	0.1V	Volt	14.6V
s	Over-CRV	7.5~16V	oVer-charging recoVer Voltage	0.1V	Volt	13.6V
t	Re-Defalt	Yes/no	Restores factory default Values	1	Yes: On No: Off	No

Notes: Over-CV > Over-CRV > Over-DRV > Over-DV

5. SES Lithium battery interface, lithium12 or lithium 24.

Item	Name abbreviAtion	data scope	Name describe	step-len gth	unit	Factory Default
a	Bat Type	Li12,Li24	Battery type choosing	1	Volt	Li12
b	Nor Time	0 ~ 15H	Normal working time	1H	Hour	0 Hour
c	Nor power	0 ~ 100%	Normal working working time power	10%	Power (percentage)	100%
d	S-Time	0 ~ 15H	SensitiVe time	1H	Hour	15 Hour
e	S-C-Power	0 ~ 100%	SensitiVe power(when people coming)	10%	Power (percentage)	100%
f	S-D-Time	0 ~ 150S	SensitiVe delay time	10S	Seconds	60S
g	S-L-Power	0 ~ 100%	SensitiVe power(after people LeaVe)	10%	Power (percentage)	30%
h	Mor Time	0 ~ 15H	Morning light working time	1H	Hour	0 Hour
i	Mor Power	0 ~ 100%	Morning light working time power	10%	Power (percentage)	30%
j	L-Con-V	5 ~ 11V	Light control Voltage	1V	Volt	5V
k	L-Con-DT	1 ~ 50Mins	Light control delay time	5M	Mins	1min
l	L-Current	0.15~ 3.42A	LED load current	0.03A	A	0.30A
m	Smart Pow	0 ~ 1	Smart power control	1	Yes: On No: Off	No
n	Sen-Dist	0 ~ 3	SensitiVe distance	1	-	0
o	0-Chg-P	Yes/no	0 charging protection	1	Yes: On No: Off	No
p	Chg-Mode	PWM/D C	Charging mode control	1	PWM : PWM Charging DC: Direct Chging	PWM
q	Over-DV	7.5~17 V	oVer-discharging protected Voltage	0.1V	Volt	10.0V
r	Over-DRV	7.5~17 V	oVer-discharging recoVer Voltage	0.1V	Volt	12.0V
s	Over-CV	7.5~17 V	Over-charging Voltage	0.1V	Volt	14.6V
t	Over-CRVV	7.5~17 V	oVer-charging recoVer Voltage	0.1V	Volt	13.6V
u	Re-Defit	Yes/No	Restores factory default Values	1	Yes: On No: Off	No

Notes: Over-CV > Over-CRV > Over-DRV > Over-DV

6. MES/SES20 Lithium battery interface, lithium12 or lithium 24.

Item	Name abbreviAtion	data scope	Name describe	step-len gth	unit	Factory Default
a	Bat Type	Li12,Li24	Battery type choosing	1	Volt	Li12
b	S-Time-1	0 ~ 15H	The first SensitiVe time	1H	Hour	4 Hour
c	S-C-Pow1	0 ~ 100%	The first SensitiVe power(when people coming)	10%	Power (percentage)	100%
d	S-L-Pow1	0 ~ 100%	The first SensitiVe power(after people LeaVe)	10%	Power (percentage)	100%
e	S-Time-2	0 ~ 15H	The second SensitiVe time	1H	Hour	4 Hour
f	S-C-Pow2	0 ~ 100%	The second SensitiVe power(when people coming)	10%	Power (percentage)	100%
g	S-L-Pow2	0 ~ 100%	The second SensitiVe power(after people LeaVe)	10%	Power (percentage)	30%
h	S-Time-3	0 ~ 15H	The third SensitiVe time	1H	Hour	15 Hour
i	S-C-Pow3	0 ~ 100%	The third SensitiVe power(when people coming)	10%	Power (percentage)	50%
j	S-L-Pow3	0 ~ 100%	The third SensitiVe power(after people LeaVe)	10%	Power (percentage)	0%
k	S-D-Time	0 ~ 250S	SensitiVe delay time	10S	Seconds	60S
l	L-Con-V	5 ~ 11V	Light control Voltage	1V	Volt	5V
m	L-Con-DT	1 ~ 50Mins	Light control delay time	5M	Mins	1min
n	L-Current	0.15~ 3.42A	LED load current	0.03A	A	0.30A
o	Smart Pow	0 ~ 1	Smart power control	1	Yes: On No: Off	No
p	0-Chg-P	Yes/no	0 charging protection	1	Yes: On No: Off	No
q	Chg-Mode	PWM/D C	Charging mode control	1	PWM : PWM Charging DC: Direct Chging	PWM
r	Over-DV	7.5~17 V	oVer-discharging protected Voltage	0.1V	Volt	10.0V
s	Over-DRV	7.5~17 V	oVer-discharging recoVer Voltage	0.1V	Volt	12.0V
t	Over-CV	7.5~17 V	Over-charging Voltage	0.1V	Volt	14.6V
u	Over-CRVV	7.5~17 V	oVer-charging recoVer Voltage	0.1V	Volt	13.6V
v	Re-Defit	Yes/No	Restores factory default Values	1	Yes: On No: Off	No

Notes: Over-CV > Over-CRV > Over-DRV > Over-DV

7. EH Lead-acid battery interface

Item	Name abbreviAtion	data scope	Name describe	step-length	unit	Factory Default Value
a	BatType	Lead, Li12,Li24	Battery type choosing	1	V	Lead
b	1stTime	0 ~ 15H	The first working time	1H	Hour	4 Hour
c	1stPower	0 ~ 100%	The first working time power	10%	Power (percentage)	100%
d	2ndTime	0 ~ 15H	The second working time	1H	Hour	0 Hour
e	2ndPower	0 ~ 100%	The second working Time power	10%	Power (percentage)	70%
f	3rdTime	0 ~ 15H	The third working time	1H	Hour	4 Hour
g	3rdPower	0 ~ 100%	The third working Time power	10%	Power (percentage)	50%
h	MorTime	0 ~ 15H	Morning light working time	1H	Hour	0 Hour
i	MorPower	0 ~ 100%	Morning light working time power	10%	Power (percentage)	30%
j	L-Con-V	5 ~ 11V	Light control Voltage	1V	Volt	5V
k	L-Con-DT	1 ~ 50Mins	Light control delay time	5M	Mins	1min
l	LED-Cur	0.15~ 6.0A	LED load current	0.03A	A	0.90A
m	SmartPow	Yes/No	Smart power control	1	No: Off Yes: On	No
n	Over-DV	7.5 ~ 17V	oVer-discharging protected Voltage	0.1V	Volt	11.0V
o	Over-DRV	7.5 ~ 17V	oVer-discharging recoVer Voltage	0.1V	Volt	12.6V
p	Boost-CV	7.5 ~ 17V	Ascending charging Voltage	0.1V	Volt	14.4V
q	Float-CV	7.5 ~ 17V	Float charging Voltage	0.1V	Volt	13.8V
r	AC-SW-V	7.5 ~ 17V	AC Switch Voltage	0.1V	Volt	11.5V
s	Re-Deflt	Yes/No	Restores factory default Values	1	Yes: On No: Off	No

Notes: Over-CV > Over-CRV >Over-DRV >Over-DV

8. EH Lithium battery interface, lithium12 or lithium 24.

Item	Name abbreviAtion	data scope	Name describe	step-length	unit	Factory Default
a	BatType	Lead, Li12,Li24	Battery type choosing	1	V	Lead
b	1stTime	0 ~ 15H	The first working time	1H	Hour	4 Hour
c	1stPower	0 ~ 100%	The first working time power	10%	Power (percentage)	100%
d	2ndTime	0 ~ 15H	The second working time	1H	Hour	0 Hour
e	2ndPower	0 ~ 100%	The second working Time power	10%	Power (percentage)	70%
f	3rdTime	0 ~ 15H	The third working time	1H	Hour	4 Hour
g	3rdPower	0 ~ 100%	The third working Time power	10%	Power (percentage)	50%
h	MorTime	0 ~ 15H	Morning light working time	1H	Hour	0 Hour
i	MorPower	0 ~ 100%	Morning light working time power	10%	Power (percentage)	30%
j	L-Con-V	5 ~ 11V	Light control Voltage	10V	Volt	5V
k	L-Con-DT	1 ~ 50Mins	Light control delay time	5M	Mins	1min
l	LED-Cur	0.15~ 6.0A	LED load current	0.03A	A	0.9A
m	SmartPow	Yes/no	Smart power control	1	Yes: On No: Off	No
n	Chg-P	Yes/no	Charging protection	1	Yes: On No: Off	No
o	Chg-Mode	PWM/DC	Charging mode control	1	PWM: PWM Charging DC: Direct Chging	PWM
p	Over-DV	7.5~17V	oVer-discharging protected Voltage	0.1V	Volt	10.0V
q	Over-DRV	7.5~17V	oVer-discharging recoVer Voltage	0.1V	Volt	12.0V
r	Over-CV	7.5~17V	Over-charging Voltage	0.1V	Volt	14.6V
s	Over-CRV	7.5~17V	oVer-charging recoVer Voltage	0.1V	Volt	13.6V
t	AC-SW-V	7.5 ~ 17V	AC Switch Voltage	0.1V	Volt	11.5V
u	Re-Defalt	Yes/no	Restores factory default Values	1	Yes: On No: Off	No

Notes: Over-CV > Over-CRV >Over-DRV >Over-DV

Running status

1. For reading the status of DH, DH-LI, DL, MH, SES, MES, SES20, EH series product:

Item	Name abbreviation	Name describe	Unit	Describe
a	SysState	Display the system state currently remark 1	-	-
b	BatVolt	Current battery Voltage	V	Volt
c	LoadVolt	Current load Voltage remark 2	V	Volt
d	Temp.	Currently ambient temperature	°	Centigrade
e	Run-Day	Total running days	D	days
f	Over-D-T	Battery over-discharge times	N	days
g	C-Ful-T	Charge the battery fully times	N	days
h	Today-HV	Today highest Voltage(battery)	V	Volt
i	Today-LV	Today lowest Voltage	V	Volt
j	1-Ago-HV	A day ago highest Voltage	V	Volt
k	1-Ago-LV	A day ago lowest Voltage	V	Volt
l	2-Ago-HV	Two days ago highest Voltage	V	Volt
m	2-Ago-LV	Two days ago lowest Voltage	V	Volt
n	3-Ago-HV	Three days ago highest Voltage	V	Volt
o	3-Ago-LV	Three days ago lowest Voltage	V	Volt
p	4-Ago-HV	Four days ago highest Voltage	V	Volt
q	4-Ago-LV	Four days ago lowest Voltage	V	Volt
r	5-Ago-HV	Five days ago highest Voltage	V	Volt
s	5-Ago-LV	Five days ago lowest Voltage	V	Volt
t	6-Ago-HV	Six days ago highest Voltage	V	Volt
u	6-Ago-LV	Six days ago lowest Voltage	V	Volt
v	7-Ago-HV	Seven days ago highest Voltage	V	Volt
w	7-Ago-LV	Seven days ago lowest Voltage	V	Volt
x	Pro-Date	Date of production	-	-
y	Model	Product model	-	-
z	Version	Product Version	-	-

2. Above is or ng the status of MPC and MPC-U series products:

Item	Name abbreviation	Name describe	Unit	Describe
a	SysState	Display the system state currently remark 1	-	-
b	BatVolt	Current battery Voltage	V	Volt
c	LoadVolt	Current load Voltage remark 2	V	Volt
d	Temp.	Currently ambient temperature	°	Centigrade
e	Run-Day	Total running days	D	days
f	Over-D-T	Battery over-discharge times	N	days
g	C-Ful-T	Charge the battery fully times	N	days
h	PV Volt	Current PV Voltage	V	Volt
i	Chg-P	Current charging power	W	Watt
j	Chg-C	Current charging current	A	Ampere
k	Chg-AH	Daily Charge AH	AH	AH
l	DisC-AH	Daily Discharge AH	AH	AH
m	Chg-Kwh	Total Charge Kwh	Kwh	Kwh
n	DisC-Kwh	Total Discharge Kwh	Kwh	Kwh
o	Today-HV	Today highest Voltage(battery)	V	Volt
p	Today-LV	Today lowest Voltage	V	Volt
q	1-Ago-HV	A day ago highest Voltage	V	Volt
r	1-Ago-LV	A day ago lowest Voltage	V	Volt
s	2-Ago-HV	Two days ago highest Voltage	V	Volt
t	2-Ago-LV	Two days ago lowest Voltage	V	Volt
u	3-Ago-HV	Three days ago highest Voltage	V	Volt
v	3-Ago-LV	Three days ago lowest Voltage	V	Volt
w	4-Ago-HV	Four days ago highest Voltage	V	Volt
x	4-Ago-LV	Four days ago lowest Voltage	V	Volt
y	5-Ago-HV	Five days ago highest Voltage	V	Volt
z	5-Ago-LV	Five days ago lowest Voltage	V	Volt
A	6-Ago-HV	Six days ago highest Voltage	V	Volt
B	6-Ago-LV	Six days ago lowest Voltage	V	Volt
C	7-Ago-HV	Seven days ago highest Voltage	V	Volt
D	7-Ago-LV	Seven days ago lowest Voltage	V	Volt
E	Pro-Date	Date of production	-	-
F	Model	Product model	-	-
G	Version	Product Version	-	-
>Wireless Addr.<				
00 00 00 00 Remark 3				

Remark 1: system status shows "OK" means the controller works normally, if shows "Err" means the controller is in error.

Remark2: The load Voltage means the Voltage between load positive and battery negative.

Remark3: When reading the status of MPC, MPC-U series controller, as for the IP address, when it shows 00 00 00 00, it means There's no any modules connected to controller. It shows 00 00 00 00 when reading the status of DH/DH-LI/DL/MH/SES/MES/SES20/EH.

Technical parameters

Battery model	(AA) × 2pcs
power supply Voltage	3.0V
EffectiVe distance	<5m
power consumed of sleep mode	<0.2uA
Normal power consumed	5mA
Send instant power consumed	<50mA
Light consumption	<12mA
Backlight consumption	<15mA
Size	122mm×61.5mm×22mm (L×W×H)
Weight	60g (Not including the battery)
Auto power off time	1 min
Backlight time	10 S
Lighting time	10 S
2000mAH battery setting quantity	50000 pcs (back light and lights both are closed)
Working temperature	-25℃ ~ 55℃