

# CU-ALL2 Remote Control



CU-ALL2



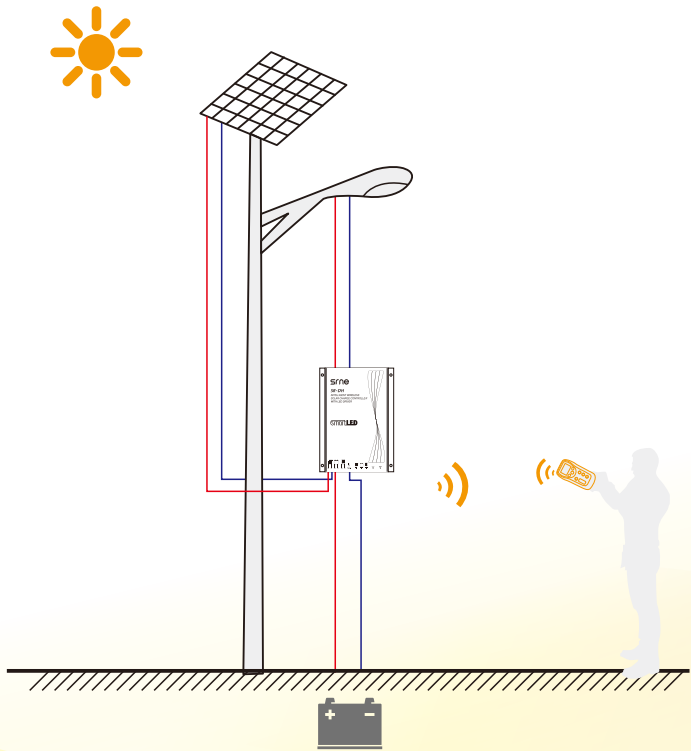
## Main features

1. Two remote control modes—infrared and wireless—are available, and the wireless remote control distance is adjustable.
2. Wireless remote control signals boast excellent penetrability and anti-interference capability.
3. Data communication adopts a multi-time handshake protocol and a data compression algorithm, realizing precise and fast data transmission.
4. Powered by two AA batteries.
5. Features an LCD screen that displays parameters and other information.
6. Enters into a sleep mode automatically after 65 seconds of no operation, and gets awakened when any key is pressed.
7. Power consumption in sleep mode is ultra low, with a current as small as 0.2uA.
8. Awakens from sleep mode quickly.
9. Displays battery level.
10. Designed in line with ergonomics and suitable for hand-held operation.

# Panel graphics



# Connection Diagram



## The parameter setting

### 1) The parameters displaying interface for MPL/MPC/MPC-U/DM120/DM120-U/DM160/DM160-U with "Lead" selected as the "Battery type"

No	Item	Data range	Item description	Adjusting step length	Unit/ notes	Factory default
a	Battery type	Lead, Lithium 12, Lithium 24	Battery type	1	Volt	Lead
b	1st-stage duration	0 ~ 15H	1st-stage operating duration	1H	Hour	4 hrs
c	1st-stage power	0 ~ 100%	1st-stage operating power	10%	Power percentage	100%
d	2nd-stage duration	0 ~ 15H	2nd-stage operating duration	1H	Hour	0 hrs
e	2nd-stage power	0 ~ 100%	2nd-stage operating power	10%	Power percentage	70%
f	3rd-stage duration	0 ~ 15H	3rd-stage operating duration	1H	Hour	4 hrs
g	3rd-stage power	0 ~ 100%	3rd-stage operating power	10%	Power percentage	50%
h	Morning on stage duration	0 ~ 15H	Morning on stage operating duration	1H	Hour	0 hrs
i	Morning on stage power	0 ~ 100%	Morning on stage operating power	10%	Power percentage	30%
j	Light control voltage	5 ~ 15V	Light control point voltage	1V	Volt	10V
k	Light control delay	1 ~ 50M	Light control delay time	5M	Minute	1min
l	Load current	0.15 ~ 6.0A	LED load current	0.03A	Ampere	0.90A
m	Intelligent power	Yes/ No	Intelligent power control	1	Yes: Enabled No: Disabled	No
n	Over-discharge voltage	7.5 ~ 17.0V	Over-discharge protection voltage	0.1V	Volt	11.0V
o	Over-discharge return	7.5 ~ 17.0V	Over-discharge return voltage	0.1V	Volt	12.6V
P	Boost charging	7.5 ~ 17.0V	Boost charging voltage	0.1V	Volt	14.4V
q	Floating charging	7.5 ~ 17.0V	Floating charging voltage	0.1V	Volt	13.8V
r	Restore defaults	Yes/ No	Restore factory defaults	1	Yes: Enabled No: Disabled	No

Note: parameter settings: boost charging > floating charging > over-discharge return > over-discharge voltage

### 2. The parameters displaying interface for MPL/MPC/MPC-U/DM120/DM120-U/DM160/DM160-U with "Lithium 12" or "Lithium 24" selected as the "Battery type"

No	Item	Data range	Item description	Adjusting step length	Unit/ notes	Factory default
a	Battery type	Lithium 12 Lithium 24	Battery type	1	Volt	Lithium 12
b	1st-stage duration	0 to 15H	1st-stage operating duration	1H	Hour	4 hrs
c	1st-stage power	0 to 100%	1st-stage operating power	10%	Power percentage	100%
d	2nd-stage duration	0 to 15H	2nd-stage operating duration	1H	Hour	0 hrs
e	2nd-stage power	0 to 100%	2nd-stage operating power	10%	Power percentage	70%
f	3rd-stage duration	0 to 15H	3rd-stage operating duration	1H	Hour	4 hrs
g	3rd-stage power	0 to 100%	3rd-stage operating power	10%	Power percentage	50%
h	Morning on stage duration	0 to 15H	Morning on stage operating duration	1H	Hour	0 hrs
i	Morning on stage power	0 to 100%	Morning on stage operating power	10%	Power percentage	30%
j	Light control voltage	5 to 15V	Light control point voltage	1V	Volt	10V
k	Light control delay	1 to 50M	Light control delay time	5M	Minute	1min
l	Load current	0.15 to 6.0A	LED load current	0.03A	Ampere	0.90A
m	Intelligent power	Yes/ No	Intelligent power control	1	Yes: Enabled No: Disabled	No
n	No charging under freezing temperature	Yes/ No	Freezing temperature protection	1	Yes: Enabled No: Disabled	No
o	Charging method	0/1	Charging method management	1	0: PWM 1: Direct charging	0
P	Over-discharge voltage	7.5 to 17.0V	Over-discharge protection voltage	0.1V	Volt	10.0V
q	Over-discharge return	7.5 to 17.0V	Over-discharge return voltage	0.1V	Volt	12.0V
r	Overcharge voltage	7.5 to 17.0V	Overcharge charging voltage	0.1V	Volt	14.6V
s	Overcharge return	7.5 to 17.0V	Over-discharge return voltage	0.1V	Volt	13.6V
t	Restore defaults	Yes/ No	Restore factory defaults	1	Yes: Enabled No: Disabled	No

Note: parameter settings: overcharge voltage > overcharge return > over-discharge return > over-discharge voltage

### 3. The parameters displaying interface for DH/DH-LI/DL/MH/DM60 with “Lead” selected as the “Battery type”

No	Item	Data range	Item description	Adjusting step length	Unit/ notes	Factory default
a	Battery type	Lead, Lithium 12, Lithium 24	Battery type	1	Volt	Lead
b	1st-stage duration	0 to 15H	1st-stage operating duration	1H	Hour	4 hrs
c	1st-stage power	0 to 100%	1st-stage operating power	10%	Power percentage	100%
d	2nd-stage duration	0 to 15H	2nd-stage operating duration	1H	Hour	0 hrs
e	2nd-stage power	0 to 100%	2nd-stage operating power	10%	Power percentage	70%
f	3rd-stage duration	0 to 15H	3rd-stage operating duration	1H	Hour	4 hrs
g	3rd-stage power	0 to 100%	3rd-stage operating power	10%	Power percentage	50%
h	Morning on stage duration	0 to 15H	Morning on stage operating duration	1H	Hour	0 hrs
i	Morning on stage power	0 to 100%	Morning on stage operating power	10%	Power percentage	30%
j	Light control voltage	5 to 11V	Light control point voltage	1V	Volt	5V
k	Light control delay	1 to 50M	Light control delay time	5M	Minute	1min
l	Load current	0.15 to 6.0A	LED load current	0.03A	Ampere	0.90A
m	Intelligent power	Yes/ No	Intelligent power control	1	Yes: Enabled No: Disabled	No
n	Over-discharge voltage	7.5 to 17.0V	Over-discharge protection voltage	0.1V	Volt	11.0V
o	Over-discharge return	7.5 to 17.0V	Over-discharge return voltage	0.1V	Volt	12.6V
p	Boost charging	7.5 to 17.0V	Boost charging voltage	0.1V	Volt	14.4V
q	Floating charging	7.5 to 17.0V	Floating charging voltage	0.1V	Volt	13.8V
r	Restore defaults	Yes/ No	Restore factory defaults	1	Yes: Enabled No: Disabled	No

Note: parameter settings: boost charging > floating charging > over-discharge return > over-discharge voltage

### 4. The parameters displaying interface for DH/DH-LI/DL/MH/DM60 with “Lithium 12” or “Lithium 24” selected as the “Battery type”

No	Item	Data range	Item description	Adjusting step length	Unit/ notes	Factory default
a	Battery type	Lead, Lithium 12, Lithium 24	Battery type	1	Volt	Lithium 12
b	1st-stage duration	0 to 15H	1st-stage operating duration	1H	Hour	4 hrs
c	1st-stage power	0 to 100%	1st-stage operating power	10%	Power percentage	100%
d	2nd-stage duration	0 to 15H	2nd-stage operating duration	1H	Hour	0 hrs
e	2nd-stage power	0 to 100%	2nd-stage operating power	10%	Power percentage	70%
f	3rd-stage duration	0 to 15H	3rd-stage operating duration	1H	Hour	4 hrs
g	3rd-stage power	0 to 100%	3rd-stage operating power	10%	Power percentage	50%
h	Morning on stage duration	0 to 15H	Morning on stage operating duration	1H	Hour	0 hrs
i	Morning on stage power	0 to 100%	Morning on stage operating power	10%	Power percentage	30%
j	Light control voltage	5 to 11V	Light control point voltage	1V	Volt	5V
k	Light control delay	1 to 50M	Light control delay time	5M	Minute	1min
l	Load current	0.15 to 6.0A	LED load current	0.03A	Ampere	0.90A
m	Intelligent power	Yes/ No	Intelligent power control	1	Yes: Enabled No: Disabled	No
n	No charging under freezing temperature	Yes/ No	Freezing temperature charging protection	1	Yes: Enabled No: Disabled	No
o	Charging method	0/1	Charging method management	1	0: PWM 1: Direct charging	0
p	Over-discharge voltage	7.5 to 17.0V	Over-discharge protection voltage	0.1V	Volt	10.0V
q	Over-discharge return	7.5 to 17.0V	Over-discharge return voltage	0.1V	Volt	12.0V
r	Overcharge voltage	7.5 to 17.0V	Overcharge charging voltage	0.1V	Volt	14.6V
s	Overcharge return	7.5 to 17.0V	Over-discharge return voltage	0.1V	Volt	13.6V
t	Restore defaults	Yes/ No	Restore factory defaults	1	Yes: Enabled No: Disabled	No

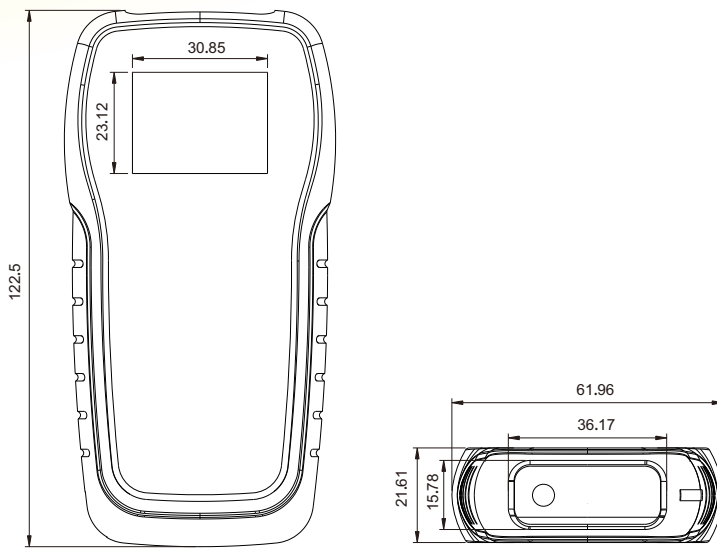
Note: parameter settings: overcharge voltage > overcharge return > over-discharge return > over-discharge voltage

## 5、 The parameters displaying interface for SES60 (old) with “Lithium 12” or “Lithium 24” selected as the “Battery type”

No	Item	Data range	Item description	Adjusting step length	Unit/ notes	Factory default
a	Battery type	Lithium 12, Lithium 24	Battery type	1	Volt	Lithium 12
b	Normal time	0 to 15H	Normal operating time	1H	Hour	0 hrs
c	Normal power	0 to 100%	Normal operating power	10%	Power percentage	100%
d	Sensing time	0 to 15H	Operating time with sensing in action	1H	Hour	15 hrs
e	Human-detected power	0 to 100%	Operating power with human detected	10%	Power percentage	100%
f	Sensing delay	0 to 150S	Sensing delay time	10S	Second	60S
g	Human-undetected power	0 to 100%	Operating power with human undetected	10%	Power percentage	30%
h	Morning on stage duration	0 to 15H	Morning on stage operating duration	1H	Hour	0 hrs
i	Morning on stage power	0 to 100%	Morning on stage operating power	10%	Power percentage	30%
j	Light control voltage	5 to 11V	Light control point voltage	1V	Volt	5V
k	Light control delay	1 to 50M	Light control delay time	5M	Minute	1min
l	Load current	0.15 to 6.0A	LED load current	0.03A	Ampere	0.90A
m	Intelligent power	Yes/ No	Intelligent power control	1	Yes: Enabled No: Disabled	No
n	Sensing distance	0 to 3	Sensing distance	1	-	0
o	No charging under freezing temperature	Yes/ No	Freezing temperature charging protection	1	Yes: Enabled No: Disabled	No
p	Charging method	0/1	Charging method management	1	0: PWM 1: Direct charging	0
q	Over-discharge voltage	7.5 to 17.0V	Over-discharge protection voltage	0.1V	Volt	10.0V
r	Over-discharge return	7.5 to 17.0V	Over-discharge return voltage	0.1V	Volt	12.0V
s	Overcharge voltage	7.5 to 17.0V	Overcharge charging voltage	0.1V	Volt	14.6V
t	Overcharge return	7.5 to 17.0V	Over-discharge return voltage	0.1V	Volt	13.6V
u	Restore defaults	Yes/ No	Restore factory defaults	1	Yes: Enabled No: Disabled	No

Note: parameter settings: overcharge voltage > overcharge return > over-discharge return > over-discharge voltage

## Dimension



## Technical parameters

Battery	Size AA × 2
Power supply voltage	3.0V
Effective range	8m (infrared remote control)    15m (wireless remote control)
Sleep power consumption	< 0.2uA
Normal power consumption	5mA
Transient power consumption at the point of transmission	< 50mA
Backlight power consumption	< 15mA
Dimensions	122mm × 61.5mm × 22mm (L × W × H)
Weight	60g (excluding batteries)
No-operation time before auto power off	65s
Backlight time	10s
No. of 2000mAH batteries set	50000 (backlight and light turned off completely)
Operating temperature	-25 to 55°C

The contents of this manual are subject to change without prior notice.