

CU-ALL2 Remote Control



CU-ALL2



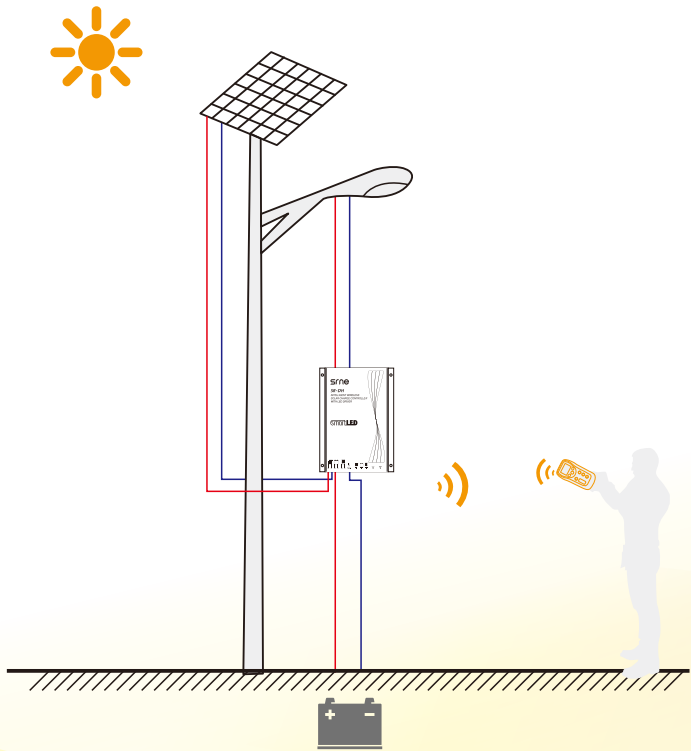
Main features

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 |

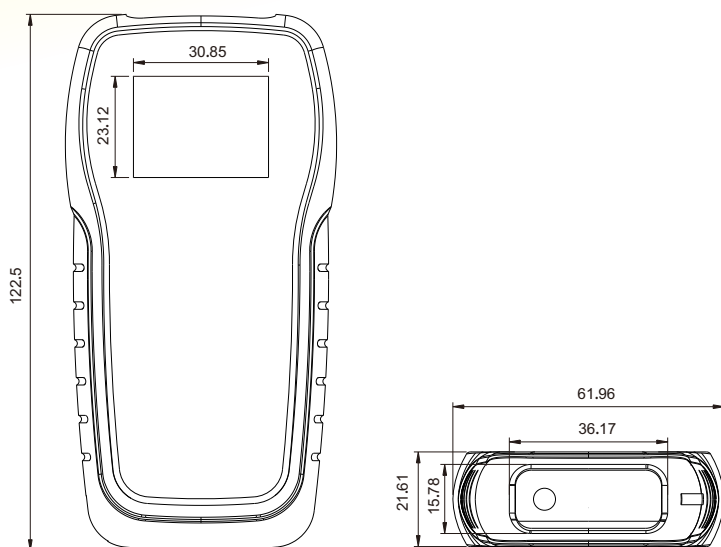
Note: parameter settings: overcharge voltage > overcharge return > over-discharge return > over-discharge voltage

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.