

# Smart-3.2V series

## Solar charge controller



SMR1006-CCN32Li

### Description of Function

Smart-CC series intelligent solar controller, is programmable and especially for buck mode LED solar street light system.

It includes constant current driver function, which can make the cost of the whole system much lower.

It comes with some outstanding features, such as:

- Can output constant current, output current can be set.
- Automatic power balance 365 mode, 365 days can be lit.
- Can read parameters and running status
- Suitable for one or two Lithium batteries in series
- If battery voltage is low, it can be set to dimming
- Dimming start voltage and percentage can be set
- Auto sleeping during transportation
- Low temperature charging protection
- Charging target voltage and recovery voltage can be set
- Day/Night threshold can adjust automatically
- Remote Unit to configure, with LCD display
- 5 stages time and dimming can be adjusted
- Ip67, Strong and durable aluminum case
- Full automatic electronic protect function



PWM



IP67



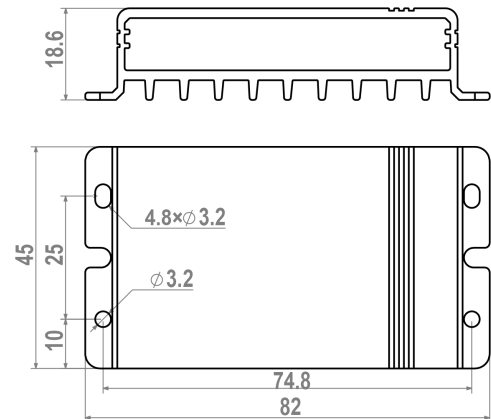
Auto dimming



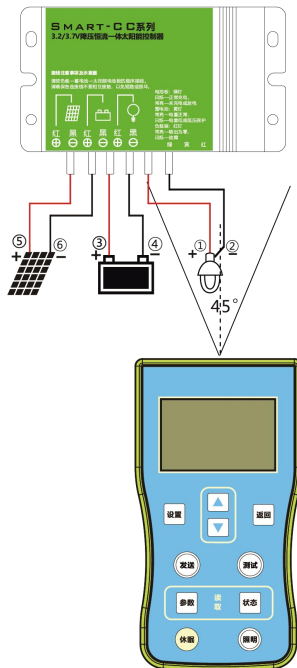
Infrared remote control

### Dimensions

Unit:mm

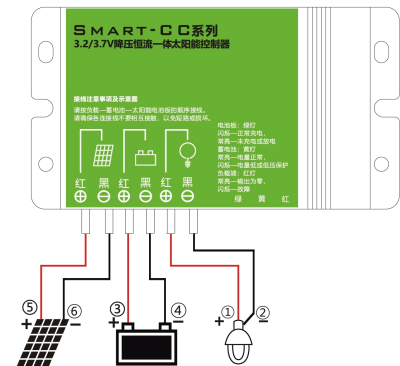


## Remote controller



When Smart-CC series controller is connected to the system, you can setting the controller with S/SG-Unit(SU/SG32) infrared remote controller, as shown below! Detailed setting operations, please read S/SG-Unit(SU/SG32) User Manual.

The following diagrams provide an overview of the connections and the proper order.



## Technical Data

|                    | Item                      | SMR1006-CCN32LiR                                      | SMR1006-CCN32Li |
|--------------------|---------------------------|-------------------------------------------------------|-----------------|
| Battery Parameters | Max Charging Current      | 15A                                                   |                 |
|                    | Charging voltage target   | 3.0~9.0V(Programmable)                                |                 |
|                    | Charging voltage recovery | 2.9~8.9V(Programmable)                                |                 |
|                    | Low voltage disconnect    | 2.4~7.2V(Programmable)                                |                 |
|                    | Low voltage reconnect     | 2.6~7.4V(Programmable)                                |                 |
|                    | Battery Type              | Lithium                                               |                 |
|                    | 0°C Charging protection   | Yes、No、Slow(Programmable)                             |                 |
| Panel Parameters   | Max volt on Bat. Terminal | 10V                                                   |                 |
|                    | Max volt on PV terminal   | 7V(Single cell), 15V(Two lithium batteries in series) |                 |
|                    | Dusk/Dawn detect volt.    | 1.0~3.0V(Programmable)                                |                 |
|                    | Day/Night delay time      | 0~30min(Programmable)                                 |                 |
| Load Parameters    | Output Current            | 0.3~10A(Programmable)                                 |                 |
|                    | Max. Output Power         | 30W                                                   |                 |
|                    | Min. Current              | 0.3A (Dimming)                                        |                 |
|                    | Current precision         | ±2%                                                   |                 |
|                    | Dimming                   | 0~100%(Programmable)                                  |                 |
|                    | Auto dimming              | Yes, NO, 365(Programmable)                            |                 |
|                    | Voltage of start dimming  | 2.8~ Charging voltage target (Programmable)           |                 |
|                    | Dimming percentage        | 5~40%(Programmable)                                   |                 |
|                    | Induction delay off time  | 10~150s(Programmable)                                 | --              |
|                    | Dimming when no people    | 0~100%(Programmable)                                  | --              |
| System Parameters  | Communicaion              | Infrared                                              |                 |
|                    | Self consumption          | 15mA@3.2V(Transportation mode)                        |                 |
|                    | Dimensions                | 45*82*18.6mm                                          |                 |
|                    | Weight                    | 125g                                                  |                 |
|                    | Wire size                 | 2.5~4mm2                                              |                 |
|                    | Ambient temperature       | -35~+60°C                                             |                 |
|                    | Ambient humidity          | 0~100%RH                                              |                 |
|                    | Protection degree         | IP67                                                  |                 |
|                    | Max Altitude              | 4000m                                                 |                 |