

# Smart-CC series

## Solar charge controller



SMR1006-CCN5M/Li

### Functions

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 power, output power can be set.  
Accuracy: 0.5W, Min power: 0.3W
- Automatic power balance 365 mode, 365 days can be lit.
- 5 stages time and dimming can be adjusted, dimming 0~100%
- Can read parameters and running status
- Suitable for Lithium battery
- If battery voltage is low, it can be set to dimming automatically
- Dimming start voltage and dimming percentage can be set
- Auto sleeping during transportation
- Low temperature charging protection
- When BMS power off because of LVD, it can activate the system automatically
- Charging target voltage and charging recovery voltage can be set
- Day/Night threshold can adjust automatically
- Remote Unit to configure, with LCD display
- IP67, Strong and durable aluminum case
- Full automatic electronic protect function



PWM



IP67

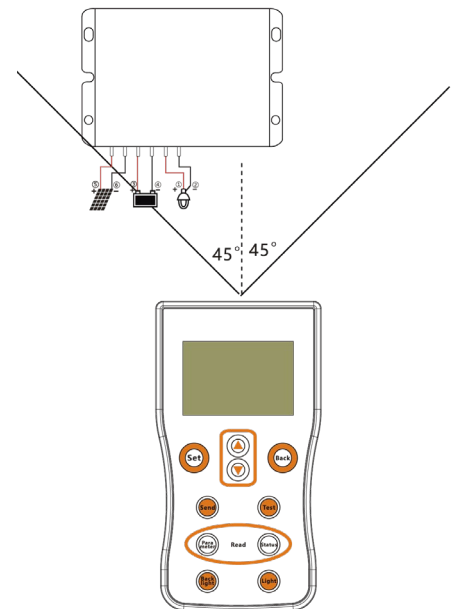


Auto dimming



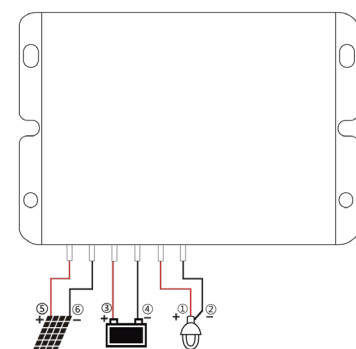
Infrared remote control

### Remote controller



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

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



## Technical Data

Item		SMR1006-CCN5MLi	
Battery Parameters	System Volt	12V	
	Max Charging Current	10A	
	Battery Type	GEL, Liquid, AGM and Lithium (Programmable)	
	MAX Volt. on Bat. Terminal	20V	
	Gel, AGM, Liquid	Fast Charging Volt	<14.5V (25°C)
		Boost Volt	14.5V (25°C)
		Equalization Volt	14.8V (25°C) (Liquid)
		Float Volt	13.7V (25°C)
		Low Volt. Disconnect	10.8 ~11.8V(Programmable)
		Reconnect Volt.	11.4 ~ 12.8V(Programmable)
		Overcharge Protect	15.5V
		Temp. Compensation	-4.17mV/K per cell (Boost, Equalization), -3.33mV/K per cell (Float)
	Lithium	Charging Volt. target	10.0~17.0V(Programmable)
		Charging Volt. recovery	8.5~16.8V(Programmable)
		Low Volt. disconnect	8.0 ~15.0V(Programmable)
Low Volt. reconnect		8.6 ~ 16.0V(Programmable)	
0°C Charging protection		Yes、 No、 Slow(Programmable)	
Panel Parameters	Max Volt. on PV terminal	25V	
	Dusk/Dawn detect volt	3.0~8.0V(Programmable)	
	Day/Night delay time	0~30min(Programmable)	
Load Parameters	Output Power	1.5~30W(Programmable)	
	Output Voltage	6V~(Battery voltage - 1V)	
	Min power	0.3W (Dimming)	
	Max LED driver efficiency	95%	
	Dimming	0~100%(Programmable)	
	Auto dimming	Yes、 NO、 365(Programmable)	
	Voltage of start dimming	Lithium: 9.0 ~ Charging voltage target (Programmable) Gel, AGM and Liquid: 11.8 ~ 12.5V(Programmable)	
	Dimming percentage	1~20%(Programmable)	
System Parameters	Max LED driver efficiency	95%	
	Self consumption	8mA	
	Dimensions	76.4*52*20.7mm	
	Weight	125g	
	Wire size	2.5mm <sup>2</sup>	
	Ambient temperature	-35~+60°C	
	Ambient humidity	0~100%RH	
	Protection degree	IP67	
Max Altitude	4000m		