

Smart-3.2V series

Solar charge controller



SMR1006-DC3215LiG

SMR1006-DC3225LiGP

Description of Function

Smart-DC series intelligent solar controller, is programmable and especially for boost 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)
- If battery voltage is low, it can be set to dimming
- Dimming start voltage and percentage can be set
- Auto sleeping during transportation
- Suitable for single or two series lithium batteries
- Low temperature charging protection
- When BMS power off because of LVD, it can activate the system automatically
- Charging target voltage and recovery voltage can be set
- Day/Night threshold can adjust automatically
- Remote Unit to configure, with LCD display(SU/SG32)
- 5 stages time and dimming can be adjusted
- Ip67, Strong and durable aluminum case
- Full automatic electronic protect function



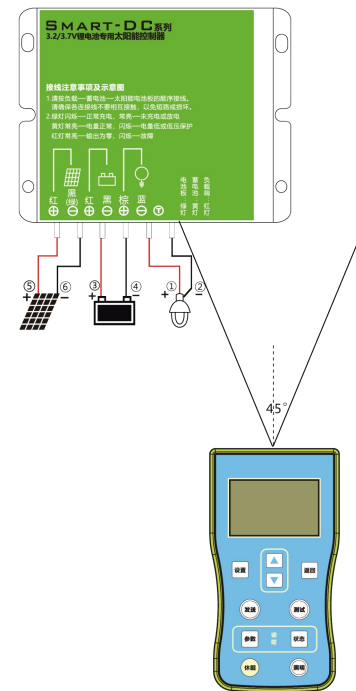
PWM



IP67

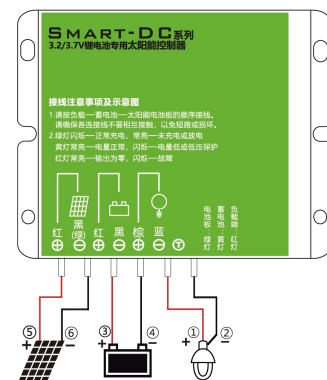


Remote controller



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

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



Smart-3.2V series

Solar charge controller



SMR1006-CCN32Li

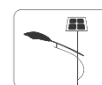
Description of Function

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

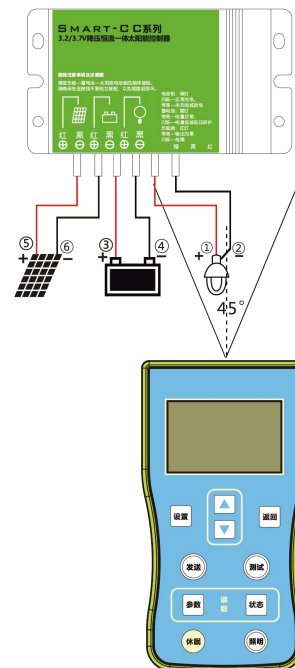


Auto dimming



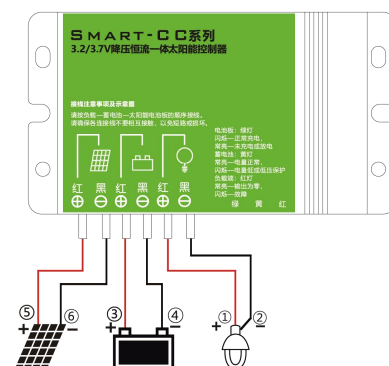
Infrared remote control

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-DCN3215LiR	SMR1006-DCN3215Li	SMR1006-DCN3225Li
Battery Parameters	Max Charging Current	15A		25A
	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℃ Charging protection	Yes、No、Slow(Programmable)		
	Max volt on Bat. Terminal	10V		
Panel Parameters	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	0.1~2.0A		
	Output Voltage	(Battery voltage+ 2V) ~34V		
	Output power	1~20W		
	Min current	50mA(Dimming)		
	Current precision	±2%		
	Max LED driver efficiency	92%		
	Dimming	0~100%		
	Auto dimming	Yes、NO (Programmable)		
	Dim V	2.8~Charging voltage target(Programmable)		
	Dim %	5~40%(Programmable)		
	Induction delay off time	10~150s(Programmable)	--	
	Dimming when no people	0~100%(Programmable)	--	
System Parameters	Communication	Infared		
	Self consumption	18mA	9mA	
	Dimensions(mm)	76.4*52*20.7mm		
	Weight	140g		
	Wire size	2.5mm2		4mm2
	Ambient temperature	-35~+60℃		
	Ambient humidity	0~100%RH		
	Protection degree	IP67		
	Max Altitude	4000m		

Technical Data

	Item	SMR1006-DCN3215LiG	SMR1006-DCN3225LiGP
Battery Parameters	Max Charging Current	15A	25A
	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)	
	Max volt on Bat. Terminal	10V	
Panel Parameters	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	0.1~2.0A (Programmable)	0.1~3.0A (Programmable)
	Output Voltage	(Battery voltage+ 2V)~ 34V	
	Output power	1~20W	1~40W
	Min current	50mA(Dimming)	
	Current precision	±2%	
	Max LED driver efficiency	92%	
	Dimming	0~100% (Programmable)	
	Auto dimming	Yes、NO (Programmable)	
	Dim V	2.8~Charging voltage target (Programmable)	
	Dim %	5~40% (Programmable)	
System Parameters	Communication	Wireless remote control, 0.5 meters~30 meters can be set	
	Self consumption	18mA@3.2V (Transportation mode)	
	Dimensions(mm)	76.4*52*20.7mm	85.8*81*23.1mm
	Weight	140g	280g
	Wire size	2.5mm ²	4mm ²
	Ambient temperature	-35~+60°C	
	Ambient humidity	0~100%RH	
	Protection degree	IP67	
	Max Altitude	4000m	

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)	
	Max volt on Bat. Terminal	10V	
Panel Parameters	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	Infared	
	Self consumption	15mA@3.2V(Transportation mode)	
	Dimensions	82*45*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	