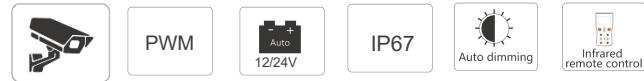
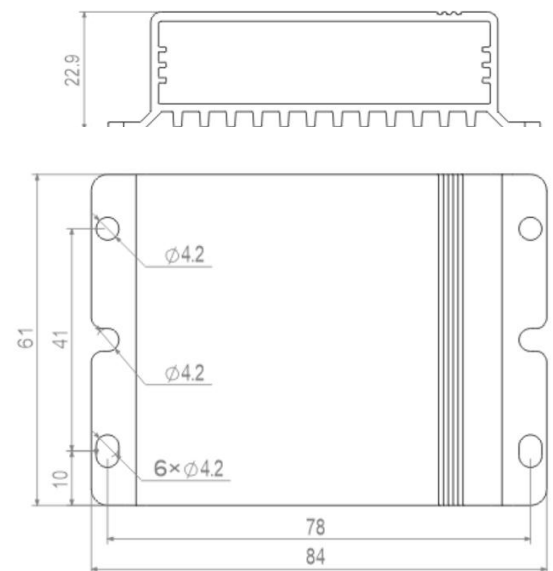


SMR-DC

PWM Solar charge controller



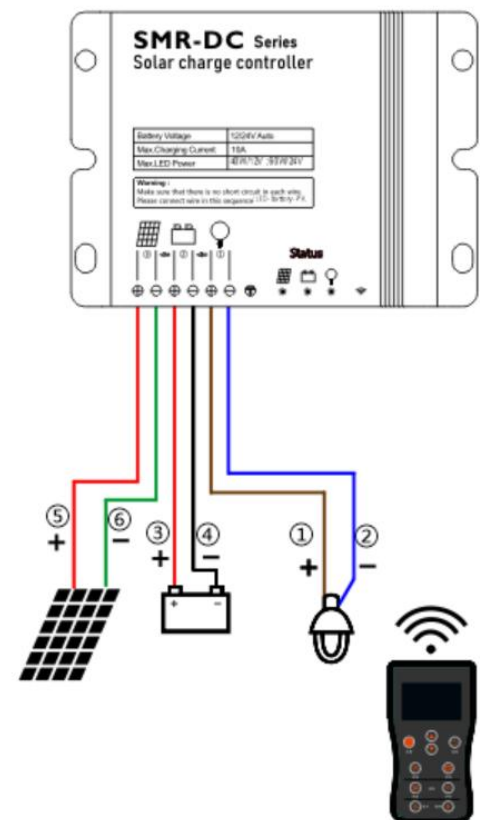
Unit:mm



Description of Function

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

- Can output constant current.
- Adjustable 5-stage timer for load output.
- Human infrared induction.
- Monitoring of the running status and parameters Suitable for Gel, Liquid, AGM and Lithium battery .
- 12V/24V system voltage automatic recognition Automatic temperature compensation(Liquid/GEL) .
- Four stages charge: fast, boost, equal, float(Liquid/GEL) .
- If battery voltage is low, it can be set to dimming automatically.
- Dimming start voltage and percentage can be set .
- Auto sleeping during transportation(Lithium).
- When BMS power off because of LVD, it can activate the system automatically (Lithium).
- Charging target and recovery voltage can be set(Lithium)
- 0°C Charging Protection(Lithium)
- Day/Night threshold can adjust automatically .
- Configurable with an LCD remote programmer .
- Waterproof IP67, Strong and durable aluminum case.
- Full automatic electronic protect function.



Technical Data

	Item	SMR10-DC60	SMR10-DC60G
Battery Parameters	System Voltage	12V/24V automatical recognition	
	Max Charging Current	10A	
	Max volt on Bat. Terminal	35V	
	Battery Type	Liquid, Gel, AGM and Lithium (Programmable, default: Lithium)	
	Liquid, Gel, AGM	PWM Charging Voltage	<14.5/29.0V@25°C
		Boost Voltage	14.5/29.0V @25°C
		Equalization Voltage	14.8/29.6V @25°C(Liquid, AGM)
		Float Voltage	13.7/27.4V @25°C
		Low Volt. Disconnect	10.8~11.8V/21.6~23.6V(Programmable)
		Reconnect Voltage	11.4~12.8V/22.8~25.6V(Programmable)
		Overcharge Protect	15.5/31.0V
		Temp. Compensation	-4.17mV/K per cell (Boost, Equalization), -3.33mV/K per cell (Float)
	Lithium	Charging voltage target	10.2~32.0V(Programmable)
		Charging voltage recovery	9.8~31.8V(Programmable)
		Low voltage disconnect	9.0~30.0V(Programmable)
		Low voltage reconnect	9.6~31.0V(Programmable)
		0°C Charging protection	Yes, Slow, No(Programmable)
Panel Parameters	Max volt on PV terminal	25V/55V *1	
	Dusk/Dawn detect volt.	3~11V /3~20V(Programmable)	
	Day/Night delay time	0~30分钟(Programmable)	
Load Parameters	Output Power	3~40W/6~60W	
	Current setting range	0.1~2.0A(Programmable)	
	Min current	50mA(Dimming)	
	Current precision	(Battery voltage + 2V)~60V	
	Auto dimming	±2%	
	Dimming	Yes, No(Programmable)	
	Voltage of start dimming	0~100%(Programmable)	
	Dimming percentage	11.8~12.5V/23.6~25.0V(Gel,AGM and Liquid); 9.5V~32.0V(Lithium)	
	Work mode	1~20%(Programmable)	
	Max LED driver efficiency	5 Stages, D2D, T0T(Programmable)	
System Parameters	Remote control mode	95%	
	Communication mode	Wireless remote control	
	Dimensions	Infrared	2.4G
	Net weight	61*84*22.9mm	
	Wire size	175克	
	Self consumption	2.5mm²	
	Ambient temperature	6~17mA	33~39mA
	Ambient humidity	-35~+60°C	
	Protection degree	0~100%RH	
	Max. Altitude	IP67	

*1.This value represents the maximum voltage of the solar panel at the minimum operating ambient temperature.

*2.Around oblique line value separately on behalf of 12V and 24V system's value.