

Smart series

Solar charge controller



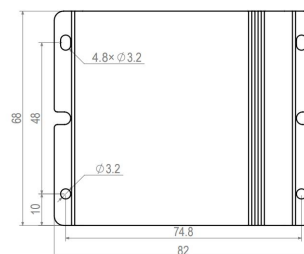
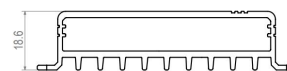
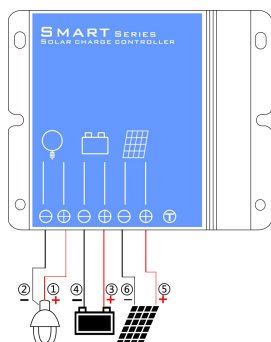
Smart10-N5/RS485
Smart20-N5/RS485

Description of Function

Smart-N5 series intelligent solar controller, is programmable and especially for solar light system.

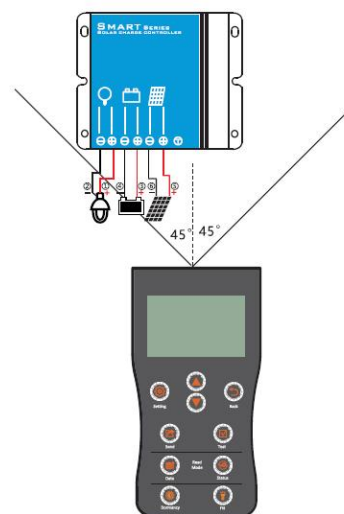
It comes with some outstanding features, such as:

- Suitable for Liquid, AGM, GEL and Lithium battery
- 12/24V system voltage automatic recognition
- Automatic temperature compensation(Liquid/AGM/GEL)
- Four stages charge: fast, boost, equal, float(Liquid/AGM/GEL)
- When BMS power off because of LVD, it can activate the system automatically(Lithium)
- Charging target and recovery voltage can be set(Lithium)
- Day/Night threshold can adjust automatically
- Remote Unit to configure, with LCD display
- Full automatic electronic protect function
- 5 stages time can be adjusted
- Can read parameters and running status
- 12/24V system voltage automatic recognition
- IP67, Strong and durable aluminum case



Smart10-N5
Smart20-N5

Remote controller



When Smart-N5 series controller is connected to the system, you can setting the controller with SU10G infrared remote controller. Detailed setting operations, please read SU10G User Manual.

Remark: Be sure to set only one Smart-N5 unit at a time.

Technical Data

	Item	SMR10-N5	SMR20-N5
Battery Parameters	Max. Current	10A	20A
	System Voltage	12/24V	
	Max. battery voltage	40V	
	Battery type	Liquid, AGM, GEL and Lithium(Programmable)	
	Liquid, AGM, GEL	Fast Voltage	<14.5V/29.0V (25°C)
		Boost Voltage	14.0~14.8V/28.0~29.6V @25°C(default:14.5/29.0V)
		Equal Voltage	14.0~15.0V/28.0~30.0V @25°C(default:14.8/29.6V)(Liquid)
		Float Voltage	13.0~14.5V/26.0~29.0V @25°C(default:13.7/27.4V)
		Overcharge Protect	15.5/31.0V
		Low voltage disconnect	10.8~11.8V/21.6~23.6V(default: 11.2/22.4V)
		Low voltage reconnect	11.4~12.8V/22.8~25.6V(default: 12.0/24.0V)
		Temp compensation	-4.17 mV/K per cell (Boost, Equal) ; -3.33 mV/K per cell (Float)
	Lithium	Charging voltage target	11.0~32.0V(Programmable)
		Charging voltage recovery	9.5~31.8V(Programmable)
		Low voltage disconnect	8.0 ~30.0V(Programmable)
		Low voltage reconnect	8.6 ~ 31.0V(Programmable)
Panel Parameters	Day/Night threshold	Liquid,AGM, GEL: 3.0~8.0V/6.0~16.0V(Programmable) Lithium: 3.0~20.0V(Programmable)	
	Day/Night delay time	0~30min(Programmable)	
	Max. panel voltage	25V/50V	
System Parameters	Dimensions	68*82*18.6mm	
	Weight	190g	
	Wire size	2.5mm ²	4mm ²
	Self consumption	10mA	
	communication mode	Infrared positive	
	Grounding	Common anode	
	Ambient temperature	-35°C~+60 °C	
	Degree of protection	IP67	
	Max. Altitude	4000m	

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

Technical Data

	Item	SMR10-RS485	SMR20-RS485
Battery Parameters	Max. Current	10A	20A
	System Voltage	12/24V	
	Max. battery voltage	40V	
	Battery type	Liquid, AGM, GEL and Lithium(default: Gel)	
	Liquid, AGM, GEL	Fast Voltage	<14.5V/29.0V (25°C)
		Boost Voltage	14.0~14.8V/28.0~29.6V @25°C(default:14.5/29.0V)
		Equal Voltage	14.0~15.0V/28.0~30.0V @25°C(default:14.8/29.6V)(Liquid)
		Float Voltage	13.0~14.5V/26.0~29.0V @25°C(default:13.7/27.4V)
		Overcharge Protect	15.5/31.0V
		Low voltage disconnect	10.8~11.8V/21.6~23.6V(default: 11.2/22.4V)
		Low voltage reconnect	11.4~12.8V/22.8~25.6V(default: 12.0/24.0V)
		Temp compensation	-4.17 mV/K per cell (Boost, Equal) ; -3.33 mV/K per cell (Float)
	Lithium	Charging voltage target	11.0~32.0V(default: 14.4V))
		Charging voltage recovery	9.5~31.8V(default: 14.0V))
		Low voltage disconnect	8.0 ~30.0V(default: 10.6V)
		0°C Charge Protection	Yes, No, Slow(Programmable)
		Low voltage reconnect	8.6 ~ 31.0V(default: 12.0V)
Panel Parameters	Day/Night threshold	Liquid,AGM, GEL: 3.0~8.0V/6.0~16.0V(Programmable) Lithium: 3.0~20.0V(Programmable)	
	Day/Night delay time	0~30min(default: 0min)	
	Max. panel voltage	25V/50V	
System Parameters	Dimensions	68*82*18.6mm	
	Weight	190g	
	Wire size	2.5mm ²	4mm ²
	Self consumption	10mA	
	communication mode	Infrared positive	
	Grounding	Common anode	
	Grounding type	Negative grounding	
	Ambient temperature	-35°C~+60 °C	
	Degree of protection	IP67	
	Max. Altitude	4000m	

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