

Solar charge controller Smart-DC series

	Model	SMR1012-DCN5UG	SMR2012-DCN5UG	
Battery Parameters	Max Charging Current	10A	20A	
	System Voltage	12V/24V automatical recognition		
	Max. battery voltage	40V		
	Battery type	Gel, Liquid, AGM and Lithium		
	Gel, Liquid and AGM	Fast Charging Volt.	<14.5/29V@25°C	
		Boost Voltage	14.5/29V @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 Volt. target	10.2~32.0V(Programmable)	
		Charging Volt. recovery	9.8~31.8V(Programmable)	
Low voltage disconnect		9.4~30.0V(Programmable)		
Low voltage reconnect		10.0~31.0V(Programmable)		
0°C Charging protection		Yes, No, Slow(Programmable)		
Panel Parameters	Max. panel voltage	25V/50V		
	Day/Night threshold	Lithium: 3.0~20.0V (Programmable) Gel, AGM and Liquid: 3.0~8.0/6.0~16.0V(Programmable)		
	Day/Night delay time	0~30min (Programmable)		
Load Parameters	Output power	3~60W/3~120W		
	Output current	0.15~4.0A(Programmable)		
	Min. Load current	100mA (Dimming)		
	Output voltage DC	(Battery voltage + 2V) ~ 55V		
	Current precision	±2%		
	Auto dimming	Yes, No(Programmable)		
	Dimming	0~100%(Programmable)		
	Voltage of start dimming	Lithium: 9.5~Charging voltage target Gel, AGM and Liquid: 11.8~12.5/23.6~25.0V(Programmable)		
	Dimming percentage	1~20% (Programmable)		
	Work Mode	5 Stages, D2D, T0T(Programmable)		
Max. LED driver efficiency	95%			
System Parameters	Remote control mode	Wireless remote control, 0.5 ~ 30 meters can be set		
	Dimensions	103*85*25mm		
	Weight	320g		
	Wire size	2.5mm ²	4mm ²	
	Self consumption	6~17mA		
	Ambient temperature	-35°C ~ +60 °C		
	Degree of protection	IP67		
	Max. Altitude	4000m		