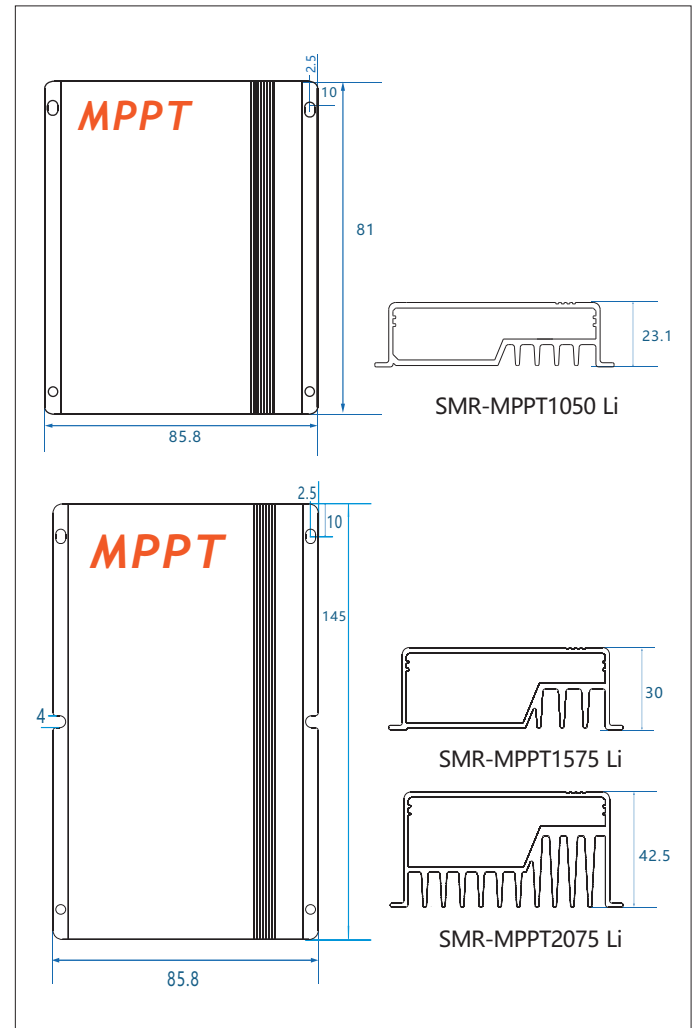


Smart-MPPT&Li series

MPPT Solar charge controller

10/15/20A



MPPT,5stages,IP67,Infrared,High efficiency

- Innovative Max Power Point Tracking(MPPT) technology, tracking efficiency >99.9%
- High charge conversion efficiency of up to 97.5%
- 12/24V system voltage automatic recognition
- Adjustable 5 stage power timer
- Monitor running status and parameters
- External temperature sensor, automatic temperature compensation
- Four stages charge way: MPPT, boost, equalization, float
- Automatic reconnection after low voltage disconnect by Battery Management System(Li series)
- Programmable charging voltages(Li series)
- Automatic day/night tracking
- Configurable with an LCD remote control
- Waterproof IP67, Strong and durable aluminum case
- Full automatic electronic protection functions

Smart-MPPT&Li series

MPPT Solar charge controller

10/15/20A

Datasheet

	Item	SMR-MPPT1050	SMR-MPPT1575	SMR-MPPT2075
Battery Parameters	System Voltage	12V	12V/24V automatical recognition	
	Max Charging Current	10A	15A	20A
	MPPT Charging Voltage	<14.5V@25°C	<14.5/29V@25°C	
	Boost Voltage	14.5 @25°C	14.5/29V @25°C	
	Equalization Voltage	14.8 @25°C (Liquid)	14.8/29.6V @25°C (Liquid)	
	Float Voltage	13.7 @25°C	13.7/27.4V @25°C	
	Low Volt. Disconnect	10.8~11.8V,SOC1~5	10.8~11.8V/21.6~23.6V; SOC1~5 (Programmable)	
	Reconnect Voltage	11.4~12.8V	11.4~12.8V/22.8~25.6V (Programmable)	
	Overcharge Protect	15.5V	15.5/31.0V	
	Max volt on Bat. terminal	25V	35V	
	Temp. Compensation	-4.17mV/K per cell (Boost, Equalization), -3.33mV/K per cell (Float)		
	Battery Type	Liquid, Gel, AGM (Programmable)		
Panel Parameters	Max volt on PV terminal	45V	55V *1	
	Max input power	130W	200W/400W	260W/520W
	Dusk/Dawn detect volt.	3.0~8.0V	3.0~20.0V (Programmable)	
	Day/Night delay time	0~30Min (Programmable)		
	MPPT tracking range	(Battery Voltage + 1.0V) ~Voc*0.9 *2		
Load	Output Current	10A	15A	20A
System Parameters	Max tracking efficiency	>99.9%		
	Max charge conversion	96.5%	97.5%	
	Self consumption	6mA		
	Dimensions	85.8 * 81 * 23.1mm	85.8 * 145 * 30mm	85.8 * 145 * 42.5mm
	Weight	260g	600g	720g
	Wire Size	2.5mm²	4mm²	
	Ambient temperature	-35~+60°C		
	Ambient humidity	0~100%RH		
	Protection degree	IP67		
	Max Altitude	4000m		

*1.PV panel Voc can not exceed this value, otherwise it will damage the controller.

*2.Voc means the open circuit voltage of the solar panel.

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

Smart-MPPT&Li series

MPPT Solar charge controller

10/15/20A

Datasheet

	Item	SMR-MPPT1050Li	SMR-MPPT1575Li	SMR-MPPT2075Li
Battery Parameters	Max Charging Current	10A	15A	20A
	Charging voltage target	10.0~17.0V	10.0~32.0V(Programmable)	
	Charging voltage recovery	9.2~16.8V	9.2~31.8V(Programmable)	
	Low voltage disconnect	9.0~15.0V	9.0~30.0V(Programmable)	
	Low voltage reconnect	9.6~16.0V	9.6~31.0V(Programmable)	
	MPPT Charging Voltage	< Charging voltage target		
	Battery Type	Lithium		
	Max volt on Bat. Terminal	25V	35V	
Panel Parameters	Max volt on PV terminal	45V	55V*1	
	Max input power	120W(3series) ~150W(4series)	50W * #(3~8) Eg: 150W(3 series) ~400W(8 series)	75W * #(3~8) *2 Eg:225W(3Series) ~600W(8Series)
	Dusk/Dawn detect volt.	3.0~8.0V	3.0~20.0V(Programmable)	
	Day/Night delay time	0~30Min(Programmable)		
	MPPT tracking range	(Battery Voltage + 1.0V) ~Voc*0.9 *3		
	Load	Output Current	10A	15A
System Parameters	Max tracking efficiency	>99.9%		
	Max charge conversion	96.5%	97.5%	
	Self consumption	6mA		
	Dimensions	85.8 * 81 *23.1mm	85.8 * 145 * 30mm	85.8 * 145 * 42.5mm
	Weight	260g	600g	720g
	Ambient temperature	-35~+60℃		
	Ambient humidity	0~100%RH		
	Protection degree	IP67		
	Max Altitude	4000m		

*1.PV panel Voc can not exceed this value, otherwise it will damage the controller.

*2.#(3~8) means the number of lithium battery series.

*3.Voc means the open circuit voltage of the solar panel.