

Smart-MPPT series

MPPT Solar charge controller

10/15A



- Innovative Max Power Point Tracking (MPPT) technology, tracking efficiency > 99.9%.
- Full digital technology, high charge conversion efficiency up to 97%.
- Remote unit to configure with LCD display.
- 12/24V automatic recognition.
- IP67, strong and durable aluminum case.
- External temp sensor, automatic temp compensation.
- Four stages charge way: MPPT, Boost, Equal, Float.
- Full automatic electronic protect

Datasheet

		SMR-MPPT1010	SMR-MPPT1075	SMR-MPPT1575
Battery Parameters	System voltage	12V/24V automatical recognition		
	Max charging current	10A		15A
	MPPT charging voltage	< 14.5/29.0V@25°C		
	Boost voltage	14.5/29.0V @25°C		
	Equal voltage	14.8/29.6V @25°C (Liquid)		
	Float voltage	13.7/27.4V @25°C		
	Low voltage disconnect	10.8~11.8V/21.6~23.6V ; SOC1~5 (Programmable)		
	Low voltage reconnect	11.4~12.8V/22.8~25.6V(Programmable)		
	Over chage protect	15.5/31.0V		
	Max battery voltage	40V	35V	
Temp compensation	-4.17mV/K per cell (Boost , Equal) , -3.33mV/K per cell (Float)			
Battery type	AGM,Liquid , GEL(Programmable)			
Panel Parameters	Max solar voltage	90V	55V	
	Max input power	130W/260W		200W/400W
	Day/Night threshold	3.0~20.0V (Programmable)		
	Day/Night delay time	0 ~ 30min(Programmable)		
	MPPT tracking range	(Vb+1.0V) ~ Voc*0.9 *		
Load	Output current	10A		15A
System Parameters	Max tracking efficiency	>99.9%		
	Max charge conversion	97.0%		
	Self consumption	6mA		
	Dimensions/Weight	85.8*145*30mm/600g		
	Ambient temperature	-35~+60°C		
	Ambient humidity	0~100%RH		
	Protection degree	Ip67		
Max altitude	4000m			

*Vb means the battery voltage. Voc means the open circuit voltage of the solar panel.

Smart-MPPT series

MPPT Solar charge controller

8/10A



MPPT , 5 stages , IP67, Infrared High efficiency

- Innovative Max Power Point Tracking (MPPT) technology, tracking efficiency >99.9%
- Full digital technology, high charge conversion efficiency up to 96%
- Remote unit to configure with LCD display
- 12V system voltage
- IP67, strong and durable aluminum case
- External temp sensor, automatic temp compensation
- Four stages charge way: MPPT, Boost, Equal, Float
- Full automatic electronic protect function

Datasheet

		SMR-MPPT0875	SMR-MPPT1050
Battery Parameters	System voltage	12V	
	Max charging current	8A	10A
	MPPT charging voltage	< 14.5V@25°C	
	Boost voltage	14.5V@25°C	
	Equal voltage	14.8V@25°C (Liquid)	
	Float voltage	13.7V@25°C	
	Charging voltage target	—	
	Charging voltage recovery	—	
	Low voltage disconnect	10.8~11.8V, SOC1~5 (Programmable)	
	Low voltage reconnect	11.4~12.8V (Programmable)	
Max battery voltage	25V		
Temp compensation	-4.17mV/K per cell (Boost , Equal) , -3.33mV/K per cell (Float)		
Battery type	Liquid, GEL,AGM(Programmable)		
Panel Parameters	Max solar voltage	60V	45V
	Max input power	100W	130W
	Day/Night threshold	3.0~8.0V(Programmable)	
	Day/Night delay time	0~30min(Programmable)	
	MPPT tracking range	(Vb+1.0V) ~Voc*0.9 *	
Load	Output current	8A	10A
System Parameters	Max tracking efficiency	> 99.9%	
	Max charge conversion	96.0%	
	Self consumption	6mA	
	Dimensions/Weight	85.8*81*23.1mm/280g	
	Ambient temperature	-35~+60°C	
	Ambient humidity	0~100%RH	
	Protection degree	IP67	
	Max altitude	4000m	

*Vb means the battery voltage. Voc means the open circuit voltage of the solar panel.