

8, Technical Data

Battery Parameters	Max Charging Current	30A
	System Voltage	12V/24V automatic recognition
	MPPT Charging Voltage	before boost or equalization charging stage
	Boost Voltage	14.0~14.8V/28.0~29.6V @25°C (default:14.5/29V)
	Equalization Voltage	14.0~15.0V/28.0~30.0V @25°C (default:14.8/29.6V)
	Float Voltage	13.0~14.5V/26.0~29.0V @25°C (default:13.7/27.4V)
	Low voltage disconnect	10.8~11.8V/21.6~23.6V, SOC1~5 (default: 11.2/22.4V)
	Low voltage reconnect	11.4~12.8V/22.8~25.6V (default: 12.0/24.0V)
	Overcharge Protect	15.8/31.3V
	Temp. Compensation	-4.17mV/K per cell (Boost, Equalization), -3.33mV/K per cell (Float)
	Charging target voltage	10.0 ~ 32.0V (Lithium, default: 14.4V)
	Charging recovery voltage	9.2 ~ 31.8V (Lithium, default: 14.0V)
	Low voltage disconnect	9.0 ~ 30.0V (Lithium, default: 10.6V)
	Low voltage reconnect	9.6 ~ 31.0V (Lithium, default: 12.0V)
	Battery Type	Gel, AGM, Liquid, Lithium (default: Gel)
Max volt on Bat. Terminal	35V	
Panel Parameters	Max volt on PV terminal	55V
	Max input power	390/780W
	Day/Night threshold	3.0~20.0V (default: 8.0/16.0V)
	Day/Night delay time	0~30min (default: 0min)
	MPPT tracking range	(Battery Voltage + 1.0V) ~Voc*0.9 ⁻²
Load	Output Current	30A
	Load mode	Always on, Street lamp, User-defined Mode
System Parameters	MPPT tracking efficiency	>99.9%
	MPPT charge conversion	98.0%
	Dimensions(mm)	189 * 182 * 64
	Weight	1.3Kg
	Self consumption	≤8mA(12V), ≤12mA(24V)
	Communication	RS485(RJ11 interface)
	Optional	IOT,Cyber-BT(Internal / External)
	Grounding	Common Negative
	Power terminals	6AWG(16mm ²)
	Ambient temperature	-20 ~ +55°C
	Storage temperature	-25 ~ +80°C
	Ambient humidity	0 ~ 100%RH
	Protection degree	IP32
Max Altitude	4000m	