

8, Technical Data

	Model	12V / 24V 40A MPPT
Battery Parameters	Max Charging Current	40A
	System Voltage	12/24V automatic recognition
	MPPT Charging Voltage	before boost or equalization charging stage
	Boost Voltage	14.0V-14.8V / 28V - 29.6V @25°C (default: 14.5V/29.0V)
	Equalization Voltage	14.0V-15.0V / 28V - 30.0V @25°C (default: 14.8V/29.6V)
	Float Voltage	13.0V-14.5V / 26V - 29.0V @25°C (default: 13.7V/27.4V)
	Low Volt. Disconnect	10.8V-11.8V / 21.6V-23.6V (default: 11.2V/22.4V)
	Reconnect Voltage	11.4V-12.8V / 22.8V-25.6V (default: 12.0V/24.0V)
	Overcharge Protect	15.8V / 31.3V
	Max volt on Bat. terminal	35V
	Temp. Compensation	-4.17mV/K per cell (Boost, Equalization), -3.33mV/K per cell (Float)
	Charging target voltage	10V-32.0V (Lithium, default: 14.4V)
	Charging recovery voltage	9.2V-31.8V (Lithium, default: 14.0V)
	Low voltage disconnect	9.0V-30.0V (Lithium, default: 10.6V)
	Low voltage reconnect	9.6V-31.0V (Lithium, default: 12.0V)
Battery Type	Gel, AGM, Liquid, Lithium (default: Gel)	
Panel Parameters	Max volt on PV terminal ¹⁾	95V
	Max input power	520/1040W
	Day/Night threshold	3.0V-10V / 6.0V-20V (default: 8V / 16V)
	MPPT tracking range	(Battery Voltage + 1.0V) ~ Voc*0.9 ²⁾
Load	Output Current	30A
	Load mode	Always on, Street lamp, User-defined Mode (default: Always on)
System Parameters	Max tracking efficiency	>99.9%
	Max charge conversion	98.0%
	Dimensions	196.5*136.6*67.1mm
	Weight	1.3Kg
	Self consumption	≤14mA
	Communication	RS485(RJ11 interface)
	Optional	IoT,BLE(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	