

	Item	MC6015
Battery Parameters	Max Charging Current	60A
	System Voltage	12/24/36/48V automatic recognition
	MPPT Charging Voltage	before boost or equalization charging stage
	Boost Voltage	14~14.8/28~29.6/42~44.4/56~59.2V@25°C(default:14.5/29/43.5/58V)
	Equalization Voltage	14~15/28~30/42~45/56~60V@25°C (default:14.8/29.6/44.4/59.2V)(Liquid, AGM)
	Float Voltage	13~14.5/26~29/39~43.5/52~58V@25°C(default:13.7/27.4/41.1/54.8V)
	Low Volt. Disconnect	10.8~11.8/21.6~23.6/32.4~35.4/43.2~47.2V (default:11.2/22.4/33.6/44.8V)
	Reconnect Voltage	11.4~12.8/22.8~25.6/34.2~38.4/45.6~51.2V(default:12/24/36/48V)
	Overcharge Protect	15.8/31.3/46.8/62.3V
	Max volt on Bat. terminal	65V
	Temp. Compensation	-4.17mV/K per cell (Boost, Equalization), -3.33mV/K per cell (Float)
	Charging target voltage	10.0~64.0V(Lithium, default: 29.4V)
	Charging recovery Volt.	9.2~63.8V(Lithium, default: 28.7V)
	Low voltage disconnect	9.0~60.0V(Lithium, default: 21.0V)
	Low voltage reconnect	9.6~62.0V(Lithium, default: 22.4V)
Battery Type	Gel, AGM, Liquid, Lithium (default: Gel)	
Panel Parameters	Max volt on PV terminal	150V, 138V ¹
	Max input power	750/1500/2250/3000W
	Day/Night threshold	3.0~10.0/6.0~20.0/9.0~30.0/12.0~40.0V(Default: 8/16/24/32V)
	MPPT tracking range	(Battery Voltage + 1.0V) ~Voc*0.9 ²
Load	Output Current	30A
	Load mode	Always on, Street lamp, User-defind Mode(default: Always on)
System Parameters	Max tracking efficiency	>99.9%
	Max charge conversion	98.0%
	Dimensions	262.5*186.5*97.5mm
	Weight	3Kg
	Self consumption	≤16mA (12V); ≤12mA (24/36/48V)
	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	

*1. Maximum solar panel voltage at minimum ambient operating temperature.

*2. Voc: PV-Module open circuit voltage.

*3. Slash separate values for 12V, 24V, 36V and 48V nominal system voltage.