

	Item		MT2075-BT	MT3075-BT	MT4010-BT
	Max Charging Current		20A	30A	40A
Battery Parameters	System Voltage		12V/24V automatical recognition		
	Battery Type		Gel, AGM, Liquid, Lithium (default: Gel)		
	Max volt on Bat. Terminal		35V		
	Gel, AGM, Liquid	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)		
	Lithium	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)		
Panel Parameters	Max volt on PV terminal *1		75V@-40°C,70V@25°C		100V@-40°C,95V@25°C
	Max input power		260/520W	390/780W	520/1040W
	Day/Night threshold		3.0~20.0V (default: 8.0/16.0V)		
	Day/Night delay time		0~30min (default: 0min)		
	MPPT tracking range*2		(Battery Voltage + 1.0V)~Voc*0.9		
Load Parameters	Output Current		20A	30A	
	Load mode		Always on, Street lamp, User-defind Mode		
System Parameters	Max tracking efficiency		>99.9%		
	Max charge conversion		98.0%		
	Dimensions(mm)		189*182*58mm	189*182*64mm	189*255*69mm
	Weight		1Kg	1.3Kg	2Kg
	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		-20 ~ +80°C		
	Ambient humidity		0~100%RH		
	Protection degree		IP32		
	Max Altitude		4000m		