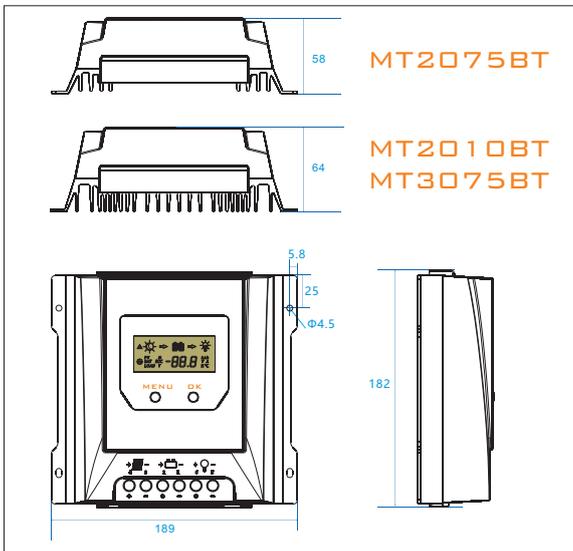
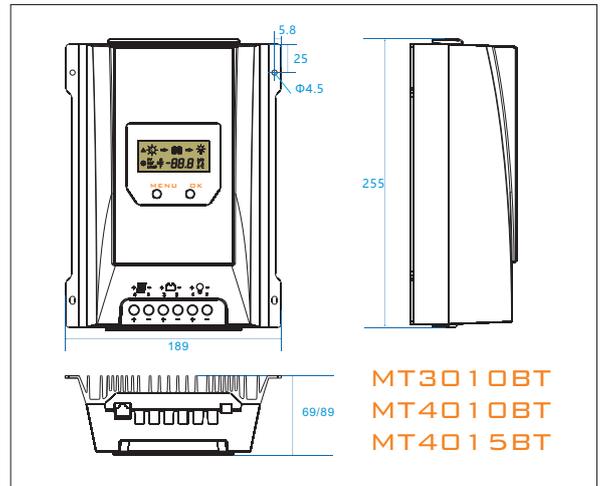


## Magic series with Bluetooth MPPT Solar charge controller

20/30/40A



### MPPT, LCD display, Bluetooth, 12/24V, 24/48V

- Innovative Max Power Point Tracking(MPPT) technology, tracking efficiency >99.9%
- Full digital technology, high charge conversion efficiency up to 98%
- LCD display design, read operating data and working condition easily
- Real-time energy statistics function
- 12/24/48V automatic recognition
- AGM, Liquid, GEL and Lithium battery for selection
- External temperature sensor, automatic temperature compensation
- Built-in temperature sensor, when the temperature exceeds the set value, the charging current will lower down followed by the decrease of temperature, so as to control the controller' s temperature rise
- Four stages charge way: MPPT, boost, equalization, float
- With current-limiting charging mode, when the power of solar panel is over-sized and charging current exceeds the rated current, the controller will lower the charging power, which enables the system to work under the rated charging current
- Multiple load control modes: Always on, Dusk to Dawn, Evening, Manual
- Bluetooth Communication
- Support mobile phone APP, realize wireless monitoring function of solar controller
- Use high performance, ultra-low power consumption Bluetooth dedicated chip
- Adopt Bluetooth 4.2 and BLE technology, communication distance up to 10m
- Real-time automatic fault alarm
- Perfect EMC & thermal design
- Full automatic electronic protect function

# Magic series with Bluetooth

## MPPT Solar charge controller

20/30/40A

## Datasheet

 Data of MT2075/3075-BT(Bluetooth)

	Item	MT2075-BT	MT3075-BT
Battery Parameters	Max Charging Current	20A	30A
	System Voltage	12V/24V automatical recognition	
	MPPT Charging Voltage	< 14.5/29.0V@25°C	
	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	15.8/31.6V	
	Temp. Compensation	-4.17mV/K per cell (Boost, Equalization), -3.33mV/K per cell (Float)	
	Charging voltage target	10.0~32.0V(Lithium, default: 12.6V)	
	Charging voltage recovery	9.2~31.8V(Lithium, default: 12.4V)	
	Low voltage disconnect	9.0~30.0V(Lithium, default: 9.0V)	
	Low voltage reconnect	9.6~31.0V(Lithium, default: 9.8V)	
	Battery Type	Gel, AGM, Liquid, Lithium (default: Gel)	
Max volt on Bat. Terminal	35V		
Panel Parameters	Max volt on PV terminal	55V(-20°C), 50V(25°C)	
	Max input power	260/520W	390/780W
	Dusk/Dawn detect volt.	3.0~20.0V (default: 8.0/16.0V)	
	MPPT tracking range	(Battery Voltage + 1.0V) ~Voc*0.9	
Load	Output Current	20A	30A
	Load mode	Always on, Dusk to Dawn, Evening, Manual	
System Parameters	Max tracking efficiency	>99.9%	
	Max charge conversion	98.0%	
	Dimensions(mm)	189 * 182 * 58	189 * 182 * 64
	Weight	1Kg	1.3Kg
	Self consumption	13mA	
	Communication	Bluetooth	
	Grounding	Common Negative	
	Power terminals	6AWG(16mm <sup>2</sup> )	
	Ambient temperature	-20 ~ +55°C	
	Storage temperature	-25 ~ +80°C	
	Ambient humidity	0 ~ 100%RH	
Protection degree	IP32		
Max Altitude	4000m		

 Please refer to Bluetooth APP instructions for detailed operation of mobile APP.

# Magic series with Bluetooth

## MPPT Solar charge controller

20/30/40A

## Datasheet

 Data of MT2010/3010/4010-BT(Bluetooth)

	Item	MT2010-BT	MT3010-BT	MT4010-BT
Battery Parameters	Max Charging Current	20A	30A	40A
	System Voltage	12V/24V automatical recognition		
	MPPT Charging Voltage	< 14.5/29.0V@25°C		
	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	15.8/31.6V		
	Temp. Compensation	-4.17mV/K per cell (Boost, Equalization), -3.33mV/K per cell (Float)		
	Charging voltage target	10.0~32.0V(Lithium, default: 12.6V)		
	Charging voltage recovery	9.2~31.8V(Lithium, default: 12.4V)		
	Low voltage disconnect	9.0~30.0V(Lithium, default: 9.0V)		
	Low voltage reconnect	9.6~31.0V(Lithium, default: 9.8V)		
	Battery Type	Gel, AGM, Liquid, Lithium (default: Gel)		
Max volt on Bat. Terminal	35V			
Panel Parameters	Max volt on PV terminal	100V(-20°C), 90V(25°C)		
	Max input power	260/520W	390/780W	520/1040W
	Dusk/Dawn detect volt.	3.0~20.0V (default: 8.0/16.0V)		
	MPPT tracking range	(Battery Voltage + 1.0V) ~Voc*0.9		
Load	Output Current	20A	30A	
	Load mode	Always on, Dusk to Dawn, Evening, Manual		
System Parameters	Max tracking efficiency	>99.9%		
	Max charge conversion	98.0%		
	Dimensions(mm)	189 * 182 * 64	189 * 255 * 69	
	Weight	1.3Kg	2Kg	
	Self consumption	13mA		
	Communication	Bluetooth		
	Grounding	Common Negative		
	Power terminals	6AWG(16mm <sup>2</sup> )		
	Ambient temperature	-20 ~ +55°C		
	Storage temperature	-25 ~ +80°C		
	Ambient humidity	0 ~ 100%RH		
	Protection degree	IP32		
Max Altitude	4000m			

 Please refer to Bluetooth APP instructions for detailed operation of mobile APP.

# Magic series with Bluetooth

## MPPT Solar charge controller

20/30/40A

## Datasheet

 Data of MT4015-BT(Bluetooth)

	Item	MT4015-BT
Battery Parameters	Max Charging Current	40A
	System Voltage	24V/48V automatical recognition
	MPPT Charging Voltage	<29.0/58.0V@25°C
	Boost Voltage	28.0~29.6V/56.0~59.2V @25°C (default:29.0/58.0V)
	Equalization Voltage	28.0~30.0V/56.0~60.0V @25°C (default:29.6/59.2V)
	Float Voltage	26.0~29.0V /52.0~58.0V@25°C (default:27.4/54.8V)
	Low voltage disconnect	21.6~23.6V/43.2~47.2V,SOC1~5(default: 22.4/44.8V)
	Low voltage reconnect	22.8~25.6V/45.6~51.2V (default: 24.0/48.0V)
	Overcharge Protect	31.6/63.2V
	Temp. Compensation	-4.17mV/K per cell (Boost, Equalization), -3.33mV/K per cell (Float)
	Charging voltage target	20.0~64.0V(Lithium, default: 29.4V)
	Charging voltage recovery	18.2~63.8V(Lithium, default: 28.7V)
	Low voltage disconnect	18.0~60.0V(Lithium, default: 21.0V)
	Low voltage reconnect	18.6~62.0V(Lithium, default: 22.4V)
	Battery Type	Gel, AGM, Liquid, Lithium (default: Gel)
Max volt on Bat. Terminal	65V	
Panel Parameters	Max volt on PV terminal	150V(-20°C), 138V(25°C)
	Max input power	1000/2000W
	Dusk/Dawn detect volt.	6.0~40.0V (default: 16.0/32.0V)
	MPPT tracking range	(Battery Voltage + 1.0V) ~Voc*0.9
Load	Output Current	30A
	Load mode	Always on, Dusk to Dawn, Evening, Manual
System Parameters	Max tracking efficiency	>99.9%
	Max charge conversion	98.7%
	Dimensions(mm)	189 * 255 * 89
	Weight	2.5Kg
	Self consumption	10mA
	Communication	Bluetooth
	Grounding	Common Negative
	Power terminals	6AWG(16mm <sup>2</sup> )
	Ambient temperature	-20 ~ +55°C
	Storage temperature	-25 ~ +80°C
	Ambient humidity	0 ~ 100%RH
	Protection degree	IP32
Max Altitude	4000m	

 Please refer to Bluetooth APP instructions for detailed operation of mobile APP.