Lithium Battery

M12 Series
lithium battery

12VDC 100Ah / 12VDC 400Ah

TBB' s M12 series lithium iron phosphate battery comes with high continuous discharge current, which makes it as one of best in the market to well handle heavy duty appliance for on-board application such as air-conditioner, coffer maker, microwave oven etc.

Heavy discharge current whilst still in light weight and compact size, plus supports parallel connection up to 4pcs, M12 series lithium battery is versatile for almost all implementation and flexible on installation.

With built-in BMS against to overcharging, over discharging, over temperature by monitoring current/voltage of each cell etc., to provide overall protection to battery and prolong battery service life.

With built-in heating element , upon using power products from TBB Power connected with communication bus, it will automatically heat the lithium battery cell to assure the charging during winter, but only upon external charging resources detected.

An elegant design monitor with information of battery voltage, current, SoC etc, which allows user to fully understand his/her battery status, as well as allows user to cut-off power from battery remotely. Furthermore, the monitor also supports mobile APP with its built-in Bluetooth connectivity.

- Long cycle life, over 3000 cycles at 80% DOD @25°C
- Maintenance free with low self-discharge rate
- Supports high continuous discharge current 150A for 12V 100AH and 300A for 12V 400AH to well handle most equipment for on-board application
- Supports parallel connection up to 4pcs
- Built in precise shunt for SOC calculation
- Built in heater element to support battery be charged at temperature -20℃ (It will take about 30 minutes from -20℃ to +5℃)
- Partial state of charge tolerant, with no damage from PSoC
- Built-in BMS with automatic balancing and protection against to over-charging, over-discharging, over-temperature etc
- With Bluetooth to support mobile APP from MCK remote
- Supports CAN and RS485 communication

MCK

Model No.		M12-100	M12- 400
Electrical			
Nominal voltage (VDC)		12.8	
Nominal capacity (Ah)		100	400
Energy (kWh)		1.28	5.12
Charging @25°C	Charge voltage (VDC)	14.2	
	Recommended charge current (A)	50	200
	Max charge current (A)	100	200
Discharging @25°C	Max discharge current continuous (A)	150	300
	Max discharge current peak (A)	165A 60S	330A 60S
		225A 10S	500A 10S
		450A 1S	600A 1S
	Discharge cut-off voltage (VDC)	11.2	
Operating temperature	Charging	-20°C ~ 55°C	
	Discharging	-20°C ~ 55°C	
Operating humidity		60 ± 25% RH, Non-condensing	
Certifications		CE / UN 38.3	
Material housing		PA6+3%GF	Metal
Dimensions (L x W x H) (mm)		310 x 165 x 187	462 x 237 x 320.5
Weight (kg)		11.5	42.5