

Lithium Battery

# M48 Series lithium battery



## 48VDC 50AH      48VDC 100AH

M48 series lithium Iron Phosphate battery module can be used for mobile energy systems, which features light weight, high power and exceptional performance in cycling.

Supporting up to 1C continuous discharge current, M48 series lithium battery is perfect to be used for high power appliance assuring you make full use of designed energy from storage battery. It has built-in BMS against overcharging, over discharging or over temperature by monitoring current, voltage and temperature of each cell. Featuring high cycle life and high discharging capability, M48 series lithium battery can offer significant value for end user with lower total ownership cost.



**48VDC 50AH**



**48VDC 100AH**

- Long cycle life, over 2500 cycles at 100% DOD @25°C
- Maintenance free with very low self-discharge rate
- Supports high discharge current (max 1C)
- More usable energy up to 100% capacity
- Partial state of charge tolerant, with no damage from PSoC
- Built-in BMS with automatic balancing and protection against over-charge, over discharge, and over-temperature
- Capability of parallel up to 12 pcs
- Environment friendly : No toxic, no acid can be installed in any direction
- Support CAN communication

Model No.	M48-50	M48-100
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### Electrical

Nominal voltage (Vdc)		48	48
Nominal capacity (AH)		50	100
Energy (KWH)		2.4	4.8
Charging @25°C	Charge voltage	52.5~54	52.5~54
	Max.Charge current	50	50
Discharging @25°C	Max continuous discharge current(A)	50	90
	Max peak discharge current(A) (15 seconds)	NA	100
	Discharge Cut-off voltage(V)	42	42
Operating temperature	Charging	0~55	0~55
	Discharging	-20°C ~ +55°C	-20°C ~ +55°C
Operating humidity		60 ± 25% RH, Non-condensing	60 ± 25% RH, Non-condensing
Certifications		CE / UN 38.3	CE / UN 38.3
Dimensions (L*W*H)(mm)		368*216*343	394*359*349
Weight (Kg)		30.4	54