



ML150-25.6 A

Lithium LiFePO4 Battery

Lead Acid Replacement Series



LITHIUM IRON PHOSPHATE Battery

ELECTRICAL PERFORMANCE

Rated voltage	25.6V, 8 string
Battery voltage range	20-29.2V, According to the single cell is 2.5V-3.65V
Rated capacity	150Ah
Total energy	3.8KWH
Cycles	6000 times (0.2C cycle, 25°C, 80%Dod, capacity retention rate≥80%)
Charge-discharge capacity efficiency	≥96%
Cells	EVE, A Grade , LiFePO4 Cell
Standard charging current (A)	75A, 0.5C
Standard discharge current (A)	75A, 0.5C
Maximum continuous charging and discharging current (A)	100

MECHANICAL PERFORMANCE

Gross weight	31 KG
Shell material	Abs rubber shell
Product size (mm)	522*244*220mm (L*W*H)
Input-output mode	M8
Enclosure Protection	IP 65
Composition mode of battery pack	8 series and 1 parallel, a total of 1 battery pack.

TEMPERATURE PERFORMANCE

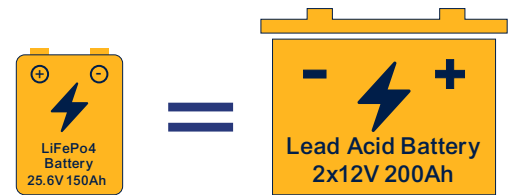
Battery system charging and discharging ambient temperature	Charge at 0°C~ 65°C and Discharge at -20°C~ 65 °C
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BMS PERFORMANCE

Charging protection	Recommended Charge Voltage	29.2V
	Overcharge protection voltage	3.65 V ±50 (mv)
	Overcharge protection delay	2000 ±1000 (ms)
	Overcharge protection recovery voltage	3.5 V ±50 (mv)
	Charging overcurrent delay	30 ±5 (s)
Balanced	Balanced turn-on voltage	3.3 V ±50 (mv)
	Balanced current	100-150 (mA)

Discharge protection	Overdischarge protection voltage	2.5 V ±100 (mv)
	Overdischarge protection delay	2000 ±1000 (ms)
	Overdischarge protection recovery voltage	2.7 V ±100 (mv)
	Delay of discharge overcurrent protection	30±5 (s)
	Short circuit protection delay	350 ±180(us)
Max Batteries Connection	Maximum Batteries in Series	2
	Maximum Batteries in Parallel	4

	Voltage (V)	Capacity (AH)	Energy (KWH)	DOD (depth of discharge)	Usable Energy (KWH)	Equivalent
ML150-25.6 A	25.6	150	3.8	90%	3.5	"(25.6V 150Ah) Lithium Battery Equivalent to TWO connected in Series (12V 200Ah) Lead Acid Battery "
200Ah LA battery	24	200	4.8	70%	3.4	



INSTRUCTIONS

1. Use a lithium charger (45A recommended, 100A max) to preserve capacity and warranty.
2. It is not recommended to use a lead acid battery charger as it will reduce the warranty to 18 months.
3. You can only connect 2 batteries max in series and 4 in parallel. Series connection reduces warranty to 18 months.
4. The product is non-disassembling, with no unauthorized dismantling and maintenance only by Marvel Technical team.
5. Using a Lithium battery provides 30~40% more effective capacity than its Lead-Acid Equivalent.