

# ML280-25.6 S





## **LITHIUM LIFePO4** Battery

### ELECTRICAL PERFORMANCE

Rated voltage 25.6V, 8 string Battery voltage range 20-29.2V Rated capacity 300Ah Total energy 7.68KWH within 6000 cycles@ 0.2C charge and discharge, 80%DOD, Temp.25 ±2°C Cycles Charge-discharge capacity efficiency ≥96% Cells Grade A , LiFePO4 0.2C ~ 0.5C (60A~140 A) Standard charging current (A) Standard discharge current (A) 0.2C ~ 0.5C (60A~140 A) Maximum continuous charging 150A and discharging current (A)

Dc bracker included

## MECHANICAL PERFORMANCE

60KG Gross weight Shell material Steel Product size (mm) 420\*440\*225±2mm (L\*W\*H) Input-output mode OT-terminal **Enclosure Protection** 

8 series and 1 parallel, a total of 1 battery pack.

TEMPERATURE PERFORMANCE

Battery system charging Charge at 0~45°C and Discharge at -20°C~ 60°C and discharging ambient temperature

Environmental relative humidity 10%-85%

### BMS PERFORMANCE

Composition mode of battery pack

Recommended Charge Voltage 29.2 V Overcharge protection voltage 3.65 V ±50 (mv) Charging Overcharge protection delay 2000 ± 1000 (ms) protection Overcharge protection recovery voltage 3.50 V ±50 (mv) Charging overcurrent delay 30±5S) Balanced turn-on voltage 3.3 V Balanced 100A Balanced current





## **BMS PERFORMANCE**

Discharge protection	Overdischarge protection voltage	2.5 ± 0.1 V	
	Overdischarge protection delay	2000 ±1000 (ms)	
	Overdischarge protection recovery voltage	2.7 ±(0.1) V	
	Delay of discharge overcurrent protection	7±(3)S	
	Short circuit protection delay	350 ±150(US)	
Max Batteries Connection	Maximum Batteries in Series	not allowed	
	Maximum Batteries in Parallel	4	

	Voltage (V)	Capacity (AH)	Energy (KWH)	DOD (depth of discharge)	Usable Energy (KWH)	Equivalent
ML280-25.6 S	25.6	300	7.7	90%	6.9	"(25.6V 300Ah) Lithium Battery Equivalent to
420Ah LA battery	24	420	10.1	70%	6.9	TWO connected in Series (12V420Ah) Lead Acid Battery "

## **INSTRUCTIONS**



- Use a lithium charger (60A recommended,150A max) to preserve capacity and warranty
- · You can only connect 4 batteries in parallel. Series connection is not allowed.
- The product is non-disassembling, with no unauthorized dismantling and maintenance only by Marvel Technical team.
- Using a Lithium battery provides 30~40% more effective capacity than its
  Lead-Acid Equivalent

