



Minicube LITHIUM ION BATTERY

- STM12V100-2
- STM12V200-2

Features



Automotive Grade LiFePO4 battery Cell



Light Weight Of 10.5KG



≥4000Cycles@ 100%DoD



Built-in 100A BMS



Max. 46.08kWh Energy Storage Solutions support up to 6P6S



Automotive Grade LiFePO4 battery Cell



Light Weight Of 19.5KG



≥4000Cycles @ 100%DoD



Built-in 200A BMS



Max. 92.16kWh Energy Storage Solutions support up to 6P6S

OFFICE IN CHINA

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Minicube LITHIUM ION BATTERY

MODEL	STM12V100-2	STM12V200-2
MECHANICAL SPECIFICATIONS		
Case Material	ABS	
Cell Type-Chemistry	Prismatic LiFePO4	
Terminal Type	M8	
IP Grade	IP65	
BMS CHARACTERISTICS		
Recommended Charge Current	50A	
Maximum Charge Current	100A	
Maximum Continuous Discharge Current	100A	200A
Recommended Charge Voltage	13.6~13.8V	
Maximum Charge Voltage	14.6V	
Overcharge Protection Voltage	14.8~15.2V	
Charge Mode	CC/CV	
Discharge Cut-off Voltage Range	11.2V	
BASIC PERFORMANCE		
Nominal Voltage	12.8 V	
Nominal Capacity	100Ah	200Ah
Standard Discharge Time	100A @60min	200A @60min
Energy	1.28KWh	2.56KWh
Internal Resistance	≤ 15mΩ	≤ 10mΩ
Self-Discharge	≤2%/Month	
Cells	Square 100Ah	
Cycle Life	4000 times(1C/1C)	
Size	306*169*215mm	522*238*223mm
Weight	10.5kg	19.5kg
COMPLIANCE		
Certifications	CE/UN38.3/UL1642/IEC62133	
Transportation Appraisal	UN3480,CLASS 9	
CHARGE PERFORMANCE		
Rated Charge Current	50 A	
Maximum Charge Current	100 A	
Rated Charge Voltage	13.6~13.8V	
Charge Cut-off Voltage	> 14.8V(0.5~1.5S)	
Reconnect Voltage	<14.4V	
Balancing Voltage	<14V	
System Series	≤6	
DISCHARGE PERFORMANCE		
Rated Discharge Current	100A	200A
Pulse Current(<=5s)	600A	1000A
Rated Discharge Cut-off Voltage	11.2V	
Minimum Discharge Cut-off Voltage	>10V	
Reconnect Voltage	>10.4V	
TEMPERATURE PERFORMANCE		
Discharge Temperature	-20~60°C	
Charge Temperature	0~45°C	
Storage Temperature	-5~35°C	
High Temperature Cut-off	65°C	
Reconnect Temperature	48°C	

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