



**MODEL** STM12V305-2

**MECHANICAL SPECIFICATIONS**

Case Material	ABS
Cell Type-Chemistry	Prismatic LiFePO4
Terminal Type	M8
IP Grade	IP65

**BMS CHARACTERISTICS**

Recommended Charge Current	100A
Maximum Charge Current	200A
Maximum Continuous Discharge Current	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	12.8V
Nominal Capacity	305Ah
Standard Discharge Time	200A @90min
Energy	3.904KWh
Internal Resistance	<=10mΩ
Self-Discharge	<=2%/Month
Cells	Prismatic 305 Ah
Cycle Life	4000 times(1C/1C)
Size	522*238*223mm
Weight	32.0kg

**COMPLIANCE**

Certifications	CE/UN38.3/UL1642/IEC62133
Transportation Appraisal	UN3480,CLASS 9

**CHARGE PERFORMANCE**

Rated Charge Current	100A
Maximum Charge Current	200A
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	<=6pcs

**DISCHARGE PERFORMANCE**

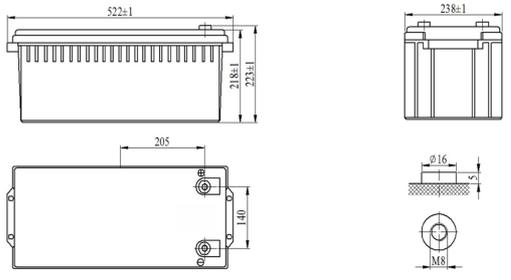
Rated Discharge Current	200A
Pulse Current(<=5S)	600 A
Rated Discharge Cut-off Voltage	11.2V
Minimum DischargeCut-off Voltage	>10V
Reconnect Voltage	>10.4V
Short Circuit Protection	200~600μs
Short Circuit Current	Approx.2000A

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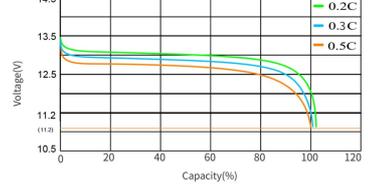
**TEMPERATURE PERFORMANCE**

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

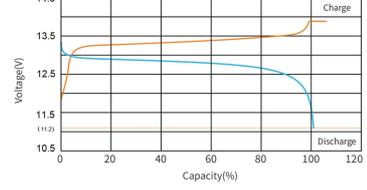
Note: Specifications are subject to change without advance notice.



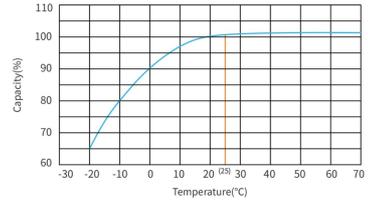
Discharge Performance at 25 °C



Charge and Discharge at 25°C,0.5C



Temperature Effects on Capacity at 0.5C



Cycle Life with DOD at 25 °C  
1C Discharge and 1C Charge

