

VoltStack Battery

ATESS VoltStack Battery is widely used in small commercial application. It adopts modular design and support up to 12 modules in series.

Features



Flexible modular design



Self-developed 3-level BMS



5 years (extendable to 10 years)



Long cycle Life, 6000 cycles
Note: At specific test condition.



Cell balancing method optional



Max. 1C discharge



VoltStack Battery

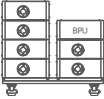
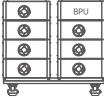
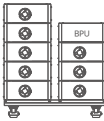
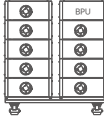
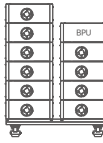
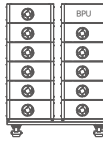
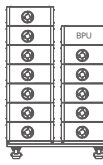
ATESS ESS-BM-51.2-100NPB

Configuration	16S1P
Rated capacity	100Ah
Rated energy	5.12kWh
Rated voltage	51.2V
Voltage range	44.8-58.4V
Rated charge/discharge	0.5C
Max. charge/discharge	1C
AC internal resistance	≤5.6mΩ
Dimension (W/H/D)	446.5/165/655mm
Weight	45.5kg
Cell chemistry	LiFePO4
Cooling method	Fan cooling

ATESS BAT100N ACC KIT

Configuration	ATESS MRB100N *1, ATESS Stack Base100N*1, ATESS Copper Bar100N*10 , ATESS Power Cable100N *2
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Battery rack specification

							
Configuration	6 modules +1 BPU	7 modules +1 BPU	8 modules +1 BPU	9 modules +1 BPU	10 modules +1 BPU	11 modules +1 BPU	12 modules +1 BPU
Rated energy	30.72kWh	35.84kWh	40.96kWh	46.8kWh	51.2kWh	56.3kWh	61.4kWh
Rated voltage	307.2V	358.4V	409.6V	468V	512V	563V	614V
Voltage range	268.8V-345.6V	313.6V-403.2V	358.4V-460.8V	403.2V-518.4V	448V-576V	492.8V-642.4V	537.6V-700.8V
Rated charge/discharge	0.5C	0.5C	0.5C	0.5C	0.5C	0.5C	0.5C
Max. charge/discharge	1C	1C	1C	1C	1C	1C	1C
AC internal resistance	≤33.6mΩ	≤39.2mΩ	≤44.8mΩ	≤50.4mΩ	≤56mΩ	≤61.6mΩ	≤67.6mΩ
BMS	Included	Included	Included	Included	Included	Included	Included
Communication	CAN	CAN	CAN	CAN	CAN	CAN	CAN
Monitoring	RS485	RS485	RS485	RS485	RS485	RS485	RS485
Max. altitude	3000m	3000m	3000m	3000m	3000m	3000m	3000m
Dimension (W/H/D)mm	923/813/630	923/813/630	923/977/630	923/977/630	923/1141/630	923/1141/630	923/1310/630
Weight	314kg	359.5kg	405kg	450.5kg	496kg	541.5kg	587kg
Protection degree	IP20	IP20	IP20	IP20	IP20	IP20	IP20

Certificate

CE, UL, UN38.3, IEC62619, MSDS, ROHS, CB

*Note: Active balancing is under development.