

MC Cube

MC-B501-E-R2M01

MC Cube is a full-scenario DC-side energy storage product. MC Cube carries forward the advantages of the "Five Easy" design concept, enabling flexible combination of modules to realize any required system capacity.



SYSTEM FEATURES



Safe & Long Lifecycle

High efficient system with safe and long lifecycle LFP battery



Highly Integrated

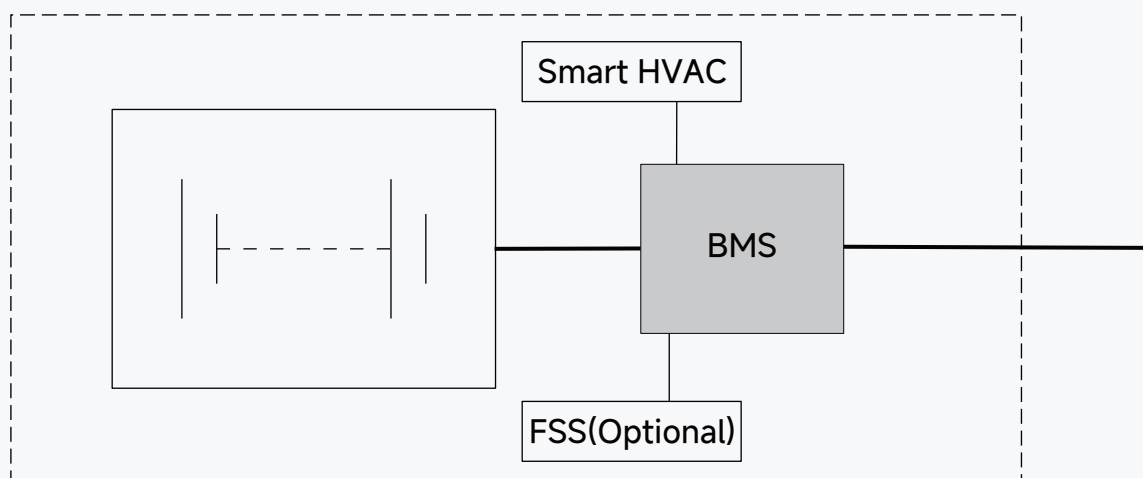
Highly integrated system to allow flexible transportation and on-site installation
All-in-One design, integrated local controller, HVAC and FSS to ensure system safety



High Energy Density

Compact mechanical design, minimized footprint

CIRCUIT DIAGRAM



SYSTEM PARAMETERS

System Type	MC-B501-E-R2M01
DC Data	
Cell type	LFP
System Configuration	1P416S
Battery Capacity (BOL)	501kWh
DC Usable Energy (BOL)@FAT	501kWh
DC Usable Energy (BOL)@1 month SAT	495kWh
DC Usable Energy (BOL)@3 months SAT	434kWh
Battery Voltage Range	1,081.6~1,489.3V
Nominal Power	250kW
General Data	
Dimensions (W×D×H)	1,130*1,203*2,521mm
Weight	3,920kg
IP Rating	IP55
Ambient Operating Temperature Range	-30°C~+55°C ^[1]
Relative Humidity	5%~100%
Max. Working Altitude	< 2,000m ^[2]
Cooling Concept	Liquid Cooling
Noise	≤75dBA
Fire Suppression System	With Fire Alarm System
Auxiliary Power Interface	AC400V/60Hz, 3P4W
Auxiliary System Peak Power Requirement @45°C, PF0.8	5.7kVA
Communication Interfaces	CAN
Communication Protocols	OD
Standard Color	RAL 9003
Compliance	IEC62619, IEC63056, CE, UN3480, UN3536

Note:

[1]Power derating is performed when the ambient temperature is below -15°C or above +45°C.

[2]Power derating is performed when the altitude is between 2000-3000m.