System Features

High Energy Density

- Compact mechanical design, minimized footprint

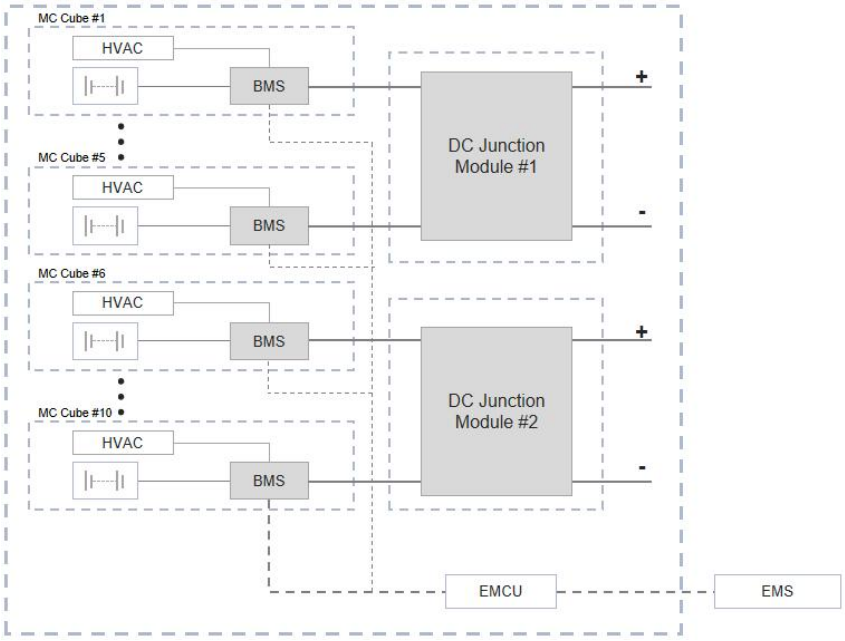
Safe & Long Lifecycle

- 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

Circuit Diagram



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Energy Storage

System Parameter

DC Data				
Cell type	LFP			
System configuration	1P416S	6*1P416S	7*1P416S	8*1P416S
Battery capacity (BOL)	501.8kWh	3010kWh	3512kWh	4014kWh
DC usable energy (BOL)@FAT	501kWh	3006kWh	3507kWh	4008kWh
DC usable energy (BOL)@1 month SAT	495kWh	2970kWh	3465kWh	3960kWh
DC usable energy (BOL)@3 months SAT	490kWh	2940kWh	3430kWh	3920kWh
Battery voltage range	1081.6 ~ 1489.3V DC			
Nominal power	250.5kW	Busbar1：1*752kW Busbar2：1*752kW	Busbar1：1*752kW Busbar2：1*1002kW	Busbar1：1*1002kW Busbar2：1*1002kW
General Data				
Dimensions (W×D×H)	1130*1208*2523mm	6058*2438*2896mm[1]	6058*2438*2896mm[1]	6058*2438*2896mm[1]
Weight	4000kg	28210kg	32180kg	36180kg
IP rating	IP55	IP55[2]	IP55[2]	IP55[2]
Ambient operating temperature range	-30℃ ~ +55℃[3]			
Relative humidity	5% ~ 100%			
Max. working altitude	< 2000m[4]			
Cooling concept	Liquid cooling			
Noise	≤75dBA			
Fire suppression system	With fire alarm system			
Auxiliary power interface	AC400V/50Hz, 3P4W	AC400V/50Hz, 3P4W	AC400V/50Hz, 3P4W	AC400V/50Hz, 3P4W
Auxiliary system peak power requirement @45℃, PF0.9	6.7kVA	43kVA	50kVA	56kVA
Communication protocols	CAN	Modbus TCP/IP	Modbus TCP/IP	Modbus TCP/IP
Standard color	RAL 9003			

Note:

[1] The size does not include the size of the DMC HVAC.The HVAC of DMC needs to be installed on site, and the size after installing the HVAC is shown in the installation drawing.

[2] All models of the MC Cube utilize a standard IP-55 rated container.

[3] Power derating is performed when the ambient temperature is below -15℃ or above +45℃.

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

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Energy Storage

System Parameter

DC Data				
Cell type	LFP			
System configuration	9*1P416S	10*1P416S	11*1P416S	12*1P416S
Battery capacity (BOL)	4516kWh	5018kWh	5519kWh	6020kWh
DC usable energy (BOL)@FAT	4509kWh	5010kWh	5511kWh	6012kWh
DC usable energy (BOL)@1 month SAT	4455kWh	4950kWh	5445kWh	5940kWh
DC usable energy (BOL)@3 months SAT	4410kWh	4900kWh	5390kWh	5880kWh
Battery voltage range	1081.6 ~ 1489.3V			
Nominal power	Busbar1：1*1002kW Busbar2：1*1253kW	Busbar1：1*1253kW Busbar2：1*1253kW	Busbar1：1*1253kW Busbar2：1*1503kW	Busbar1：1*1503kW Busbar2：1*1503kW
General Data				
Dimensions (W×D×H)	6058*2438*2896mm[1]	6058*2438*2896mm[1]	7528*2438*2896mm[1]	7528*2438*2896mm[1]
Weight	39950kg	43950kg	49195kg	53195kg
IP rating	IP55[2]	IP55[2]	IP55[2]	IP55[2]
Ambient operating temperature range	-30℃ ~ +55℃[3]			
Relative humidity	5% ~ 100%			
Max. working altitude	< 2000m[4]			
Cooling concept	Liquid cooling			
Noise	≤75dBA			
Fire suppression system	With fire alarm system			
Auxiliary power interface	AC400V/50Hz, 3P4W	AC400V/50Hz, 3P4W	AC400V/50Hz, 3P4W	AC400V/50Hz, 3P4W
Auxiliary system peak power requirement @45℃, PF0.9	63kVA	70kVA	77kVA	83kVA
Communication protocols	Modbus TCP/IP	Modbus TCP/IP	Modbus TCP/IP	Modbus TCP/IP
Standard color	RAL 9003			

Note:

[1] The size does not include the size of the DMC HVAC.The HVAC of DMC needs to be installed on site, and the size after installing the HVAC is shown in the installation drawing.

[2] All models of the MC Cube utilize a standard IP-55 rated container.

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