MC Cube-T ESS

MC8C-B4008-E/U-R2 & MC10C-B5010-E/U-R2
MC8C-B4292-E/U-R4 & MC10C-B5365-E/U-R4

The new-generation MC Cube-T ESS practices the concept of MC Cube, inheriting from "Five Easy" strength, which enables flexible combination of any cube, to achieve any system capacity.

SYSTEM FEATURE

Ultra-high Density
Compact design, larger capacity, smaller footprint.

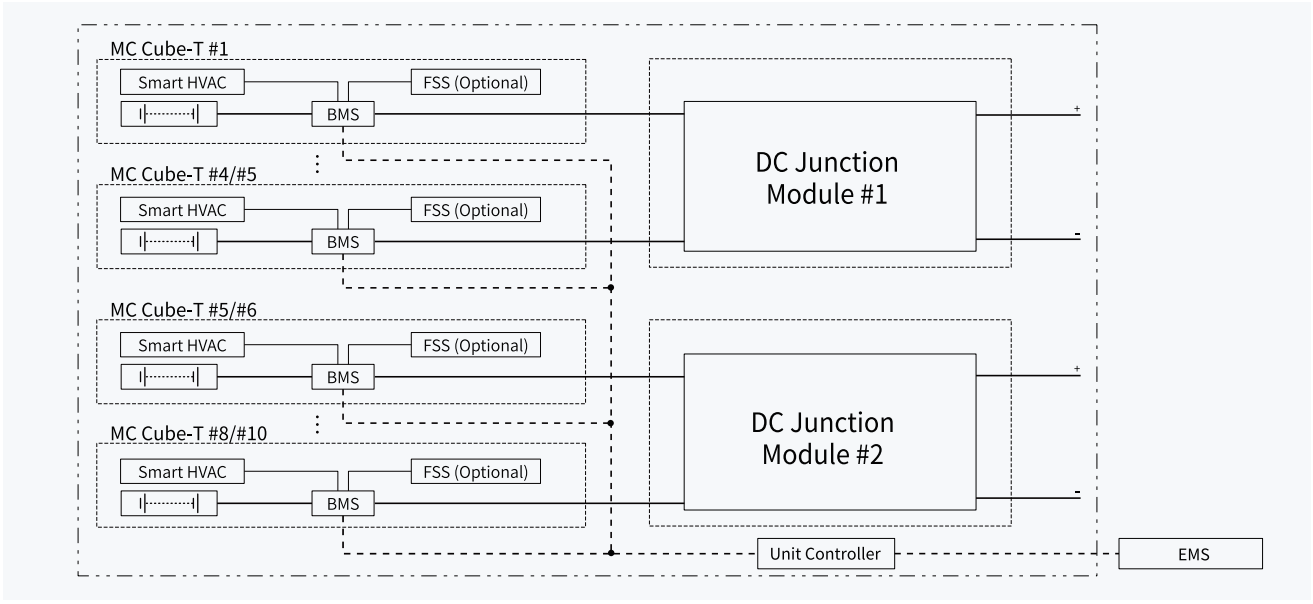
Independent Cluster Design
1500V system voltage, reliable liquid-cooling at cluster level.

Ultra-high Flexibility
Flexible combination of any cube, to achieve any system capacity; can match mainstream string/central PCS.

Highly Integrated
Professional integration of local controller, HVAC and FSS.

Safe & Long lifetime
Ultimate protection, intelligent temperature control, temperature difference < 4°C, with new-gen safe and long-life LFP battery for energy storage.

CIRCUIT DIAGRAM



SYSTEM PARAMETERS

System Type	MC8C-B4008-E/U-R2	MC10C-B5010-E/U-R2	MC8C-B4292-E/U-R4	MC10C-B5365-E/U-R4
DC Side				
Cell Type	LFP			
System Configuration	2×4×1P416S	2×5×1P416S	2×4×1P416S	2×5×1P416S
Battery capacity (BOL)	4008kWh	5010kWh	4292kWh	5365kWh
DC usable energy @FAT	4008kWh	5010kWh	4288kWh	5360kWh
Nominal Voltage	1331.2V DC			
Battery voltage range	1081.6 ~ 1489.3V DC			
Nominal power	2×1002kW	2×1252.5kW	2×536kW	2×670kW
General Parameters				
Dimensions (W×D×H mm)	6058×2438×2896			
Weight	36000kg	44000kg	35300kg	43300kg
IP Rating	IP55			
Anti-corrosion Grade	C4/C5 (Optional)			
Max. Working Altitude	< 3000m[1]			
Cooling Concept	Liquid Cooling			
Temperature Range	30℃ ~ +55℃ [2]			
Relative Humidity	5% ~ 100%			
Noise	≤75dBA			
Fire Suppression System	With fire detection and alarm system. Aerosol is optional			
Auxiliary Power Interface	AC380V/50Hz, AC480V/60Hz; 3-phase 4-wire			
Communication Protocols	Modbus TCP/IP			
Auxiliary system peak power requirement @45℃, PF0.8	56kVA	69kVA	37kVA	46kVA
Standard Color	RAL 9003			
Compliance	IEC 62619, UL 9540, UL 9540A, UL 1973, UN 38.3, UN 3536, CE Marking			

Note:
[1] Power derating is performed when the altitude is between 2000-3000m
[2] Power derating is performed when the ambient temperature is below -15℃ or above +45℃.