

BYD - MC Cube C&I

MC-P200B466-E-R2M01



System Features

High Energy Density

- Compact mechanical design, minimized footprint

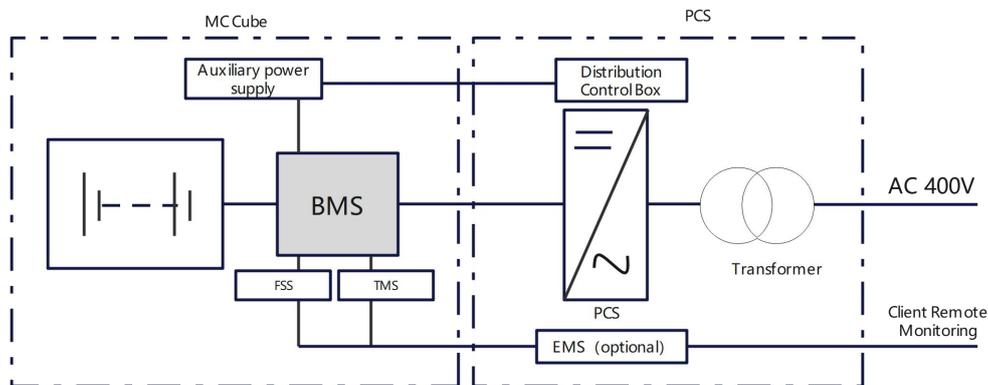
Safe & Long Lifecycle

- Highly 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 with PCS, local controller, HVAC and FSS to ensure system safety

Circuit Diagram





System Parameter

System Type	MC-P200B466-E-R2M01
DC Data	
Cell Type	LFP
System Configuration	1P416S (16 Modules)
Battery Capacity (BOL)	466kWh
DC Usable Energy (BOL)@FAT	447kWh
Depth of Discharge(DoD)	100%
Nominal Voltage (Battery Voltage Range)	1331.2V (1081.6 ~ 1497.6V)
Cooling Concept	Liquid cooling
AC Data	
Nominal Power	200kW
AC Usable Energy (BOL)@FAT	431kWh
Max. THD of Current (@Nominal Power)	<3%
Power Factor	-0.95~0.95
Nominal Grid Voltage (Voltage Range)	400V (340~440V)
Nominal Grid Frequency (Grid Frequency Range)	50Hz (45~55Hz)
Isolation Method	Isolation transformer
System Data	
IP Rating	IP55
Dimensions (W×D×H)	~2240×1168×2540mm
Weight	~6000kg
Ambient Operating Temperature Range	-30℃ ~ +55℃ 【1】
Relative Humidity	5% ~ 100%
Max. Working Altitude	< 2000m 【2】
Noise	≤75dB(A)
Fire Suppression System	Aerosol
Auxiliary Power Interface	AC400V/50Hz,3-phase 4-wire
Auxiliary System Peak Power Requirement @45℃, PF0.8	~8.0kVA
Communication Interfaces	Ethernet
Communication Protocols	Modbus TCP
Compliance	Battery: IEC62619, UL1973, UL9540, UL9540A PCS: IEC62477, UL1741 SA

Note:

【1】 Power derating is performed when the ambient temperature is below -15℃ or above +45℃.

【2】 Power derating is performed when the altitude is between 2000-3000m.