

## BYD - MC Cube C&I

MC-P80B335-E-R4M01

MC-P140B291-E-R2M01



## System Features

### High Energy Density

- Compact mechanical design, minimized footprint

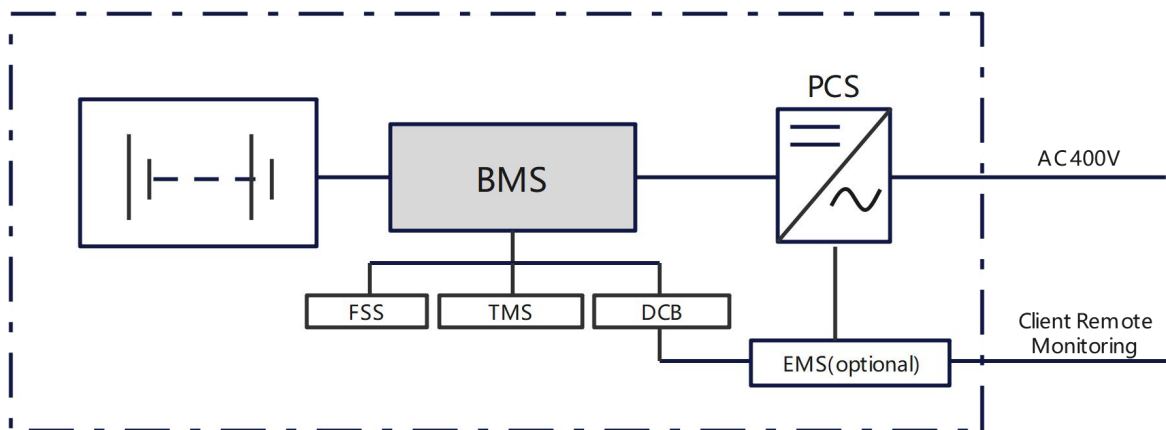
### Safe & Long Lifecycle

- 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-P140B291-E-R2M01	MC-P80B335-E-R4M01
DC Data		
Cell Type	LFP	LFP
System Configuration	1P260S (10Modules)	1P260S(10 Modules)
Battery Capacity (BOL)	291kWh	335kWh
DC Usable Energy (BOL)@FAT	279kWh	321kWh
Depth of Discharge(DoD)	100%	100%
Nominal Voltage (Battery Voltage Range)	832V (676~936V)	832V (676~936V)
Cooling Concept	Liquid cooling	Smart air cooling
AC Data		
Nominal Power	140kW	80kW
AC Usable Energy (BOL)@FAT	273kWh	314kWh
Max. THD of Current (@Nominal Power)	<3%	<3%
Power Factor	-0.95~0.95	-0.95~0.95
Nominal Grid Voltage (Voltage Range)	400V (340~440V)	400V (340~440V)
Nominal Grid Frequency (Grid Frequency Range)	50Hz (45~55Hz)	50Hz (45~55Hz)
Isolation Method	Transformer less	Transformer less
System Data		
IP Rating	IP55	IP55
Dimensions (W×D×H)	~1130×1203×2540mm	~1130×1203×2540mm
Weight	~3300kg	~3300kg
Ambient Operating Temperature Range	-30℃ ~ +55℃ 【1】	-30℃ ~ +55℃ 【1】
Relative Humidity	5% ~ 100%	5% ~ 100%
Max. Working Altitude	< 2000m 【2】	< 2000m 【2】
Noise	≤75dB(A)	≤75dB(A)
Fire Suppression System	Aerosol	Aerosol
Auxiliary Power Interface	AC400V/50Hz,3-phase 4-wire	AC400V/50Hz,3-phase 4-wire
Auxiliary System Peak Power Requirement @45℃, PF0.8	~7.4kVA	~3.7kVA
Communication Interfaces	Ethernet	Ethernet
Communication Protocols	Modbus TCP/IP	Modbus TCP/IP
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.