

INDUSTRIAL FLEX X+Y

A flexible C&I energy storage platform built from two core building blocks:
BYD MC Cube Battery Modules (X) + Power Conversion Systems (PCS) (Y)

SYSTEM FEATURES



HIGH ENERGY DENSITY & SAFETY

Compact mechanical design, minimized footprint. Powered by the super-safe BYD Blade cells.



PROVEN RELIABILITY

Built on the MC Cube platform, one of the most deployed and trusted C&I battery systems worldwide.



HIGHLY INTEGRATED

All-in-one design, integrated with PCS, local controller, HVAC and FSS to ensure system safety.

PRODUCT RANGE



INDUSTRIAL FLEX 1+1

501 kWh / 144 kW
1x MC Cube + 1x PCS + EMS



INDUSTRIAL FLEX 2+2

1002 kWh / 288 kW
2x MC Cube + 2x PCS + EMS



INDUSTRIAL FLEX 3+3

1503 kWh / 432 kW
3x MC Cube + 3x PCS + EMS



INDUSTRIAL FLEX 4+4

2004 kWh / 576 kW
4x MC Cube + 4x PCS + EMS

INDUSTRIAL FLEX 1+2

501 kWh / 250 kW
1x MC Cube + 2x PCS + EMS

INDUSTRIAL FLEX 2+3

1002 kWh / 432 kW
2x MC Cube + 3x PCS + EMS

INDUSTRIAL FLEX 2+4

1002 kWh / 501 kW
2x MC Cube + 4x PCS + EMS

INDUSTRIAL FLEX 3+4

1503 kWh / 576 kW
3x MC Cube + 4x PCS + EMS

SPECIFIC SYSTEM PARAMETERS

SYSTEM	IND. FLEX 1+1 IF-1-1-0501-0144	IND. FLEX 1+2 IF-1-2-0501-0250	IND. FLEX 2+2 IF-2-2-1002-0288	IND. FLEX 2+3 IF-2-3-1002-0432	IND.FLEX 2+4 IF-2-4-1002-0501	IND. FLEX 3+3 IF-3-3-1503-0432	IND. FLEX 3+4 IF-3-4-1503-0576	IND. FLEX 4+4 IF-4-4-2004-0576
No. Battery Cabinets (X)	1	1	2	2	2	3	3	4
No. PCS Modules (Y)	1	2	2	3	4	3	4	4
Energy (kWh)	501kWh	501kWh	1002kWh	1002kWh	1002kWh	1503kWh	1503kWh	2004kWh
Power (kW)	144kW	250kW	288kW	432kW	501kW	432kW	576kW	576kW
Dimensions (WxDxHmm)	2250 x 1238 x 2775	2250 x 1238 x 2775	3360 x 1238 x 2775	3360 x 1238 x 2775	3360 x 1238 x 2775	4480 x 1238 x 2775	4480 x 1238 x 2775	5600 x 1238 x 2775
Weight	5500kg	5600kg	9600kg	9700kg	9800kg	13700kg	13800kg	17800kg

GENERAL SYSTEM PARAMETERS

DC DATA		AC DATA	
Cell Type	LFP (BYD Blade Cell)	Max. THD of Current (@Nominal Power)	<3%
Depth of discharge (DoD)	100%	Power factor	-0.95~0.95
Nominal voltage (Battery voltage range)	1331.2V (1081.6-1497.6V)	Nominal Grid Voltage (Voltage Range)	400V Transformerless (340~440V)
Cooling concept	Liquid cooling	Nominal Grid Frequency (Grid Freq. Range)	50Hz (45~55Hz)
SYSTEM DATA		SYSTEM DATA	
IP Rating	IP55	Auxiliary power interface	AC400V/50Hz, 3-phase 4-wire
Corrosion level	C5	Auxiliary system peak power requirement @45°C, PF0.8	~8kVA - 30kVA
Ambient operating temperature range	-25°C~+50°C ^[1]	Communication interfaces	Ethernet
Relative humidity	5%~100%	Communication protocols	Modbus TCP
Max. working altitude	<2000m	Compliance ^[2]	Battery: IEC 62619, UL1973, UL9540, UL9540A
Noise	≤75dBA		PCS: IEC/EN 62477, IEC/EN 61000, EN 50549-1, EN 50549-2, G99 (UK), VDE 4110 (Germany)
Fire suppression system	Aerosol		

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

^[2] Provided on a component level (Battery and PCS).