

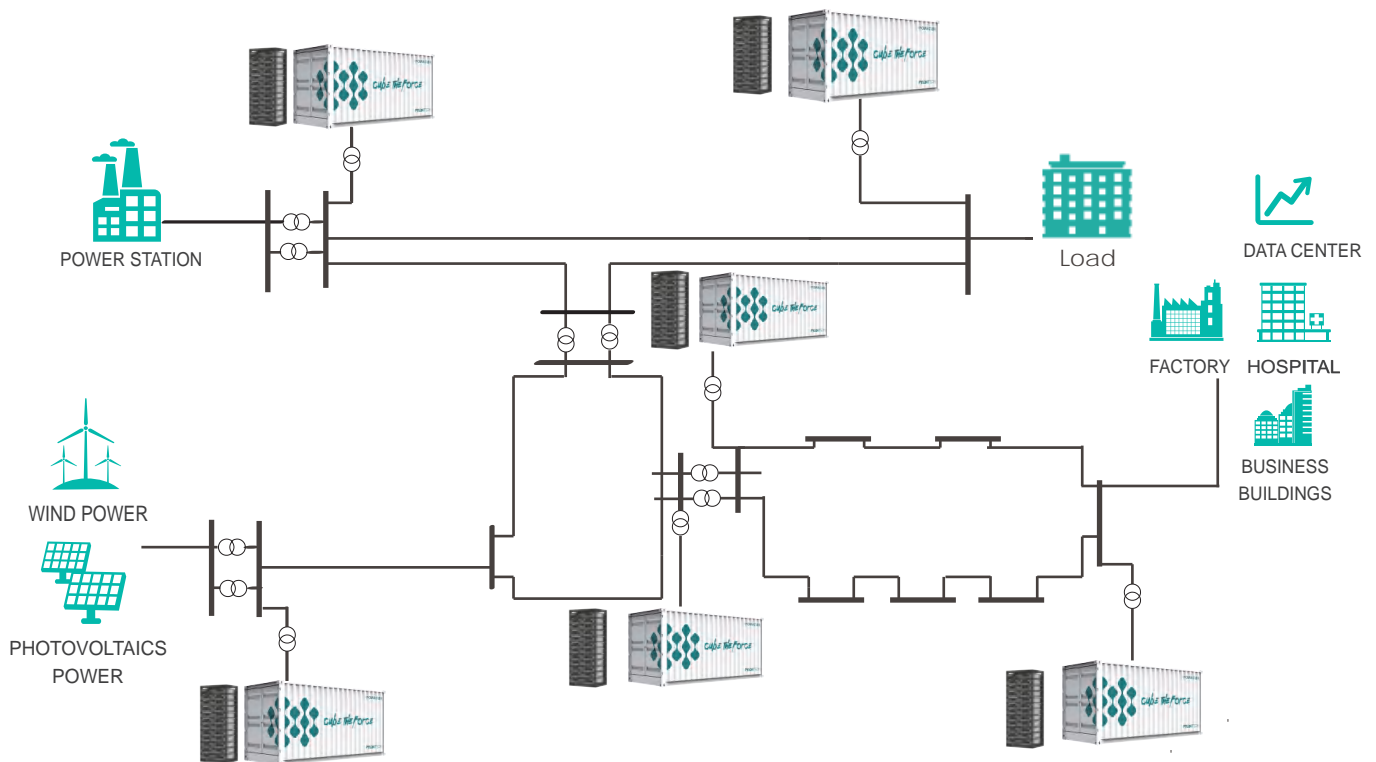


# HIGH VOLTAGE ENERGY STORAGE SYSTEM

# Pylon Technologies Co., Ltd.

Along with the wide deployed residential ESS Phantom series, Pylontech is proud to announce our High Voltage energy storage system serving the commercial/industrial/grid level customers – Powercube series.

Powercube series products with its modular design concept, enables the highest flexibility both for rack mounted and container based constructions, giving the flexibilities for customer to deploy the system nearly in any nodes in the grid, supporting the services such as emergency power, new energy stabilizer, energy shifting, load shaving, grid stabilizer, frequency responding (under development). With our deep experience in BESS (battery energy storage system), vertical industrial chain consolidation and fantastic ROI control, Pylontech Powercube will be your trustable system in all ESS application.



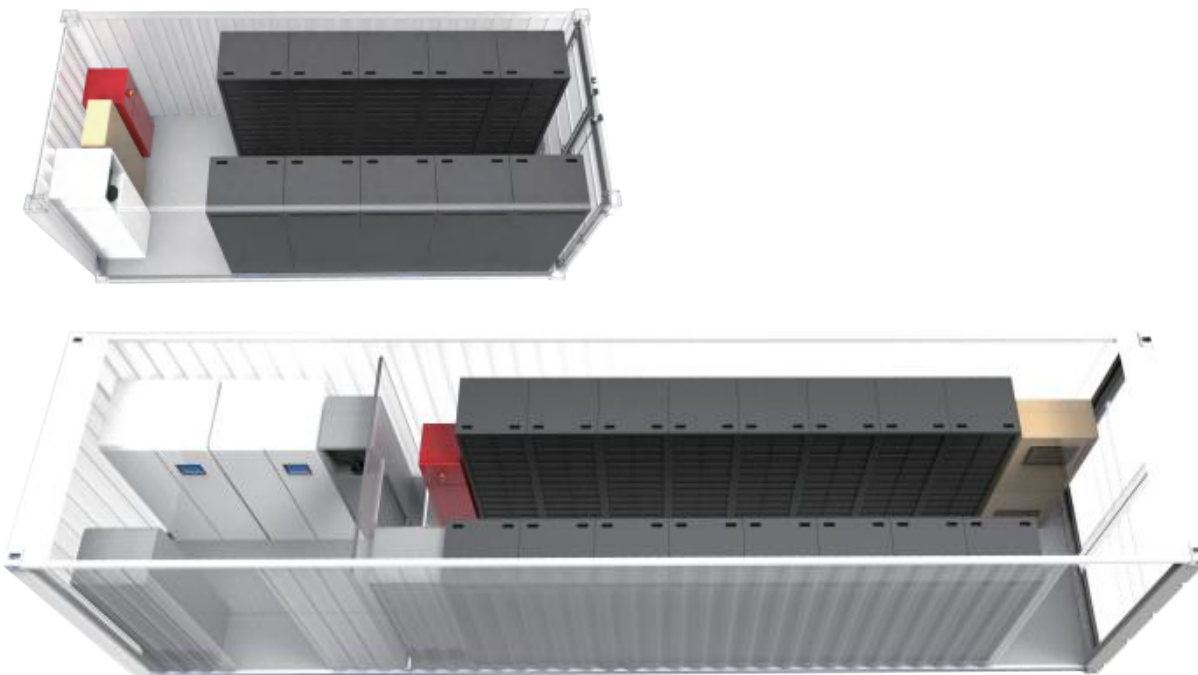
## Vertically integrated the whole lithium battery industrial chain



### Key features:

- 1, Vertical industry integration chain
- 2, Modular design with different density, suits all scenarios.
- 3, Flexible voltage range from 100VDC to 1500VDC.
- 4, Three levels management system design delivers highest reliability.
- 5, Rack mounted or container based system configuration

### Layout of the Container



## High voltage energy storage system

### Powercube-X series 100 - 400Vdc



Basic Parameters	Powercube-X1 (336V50AH)	
	H48050	
Battery System Capacity(kWh)	16.80	
Battery System Voltage(Vdc)	336	
System Voltage Range(Vdc)	310~378	
Efficiency	96%	
Depth of Discharge	90%	
Dimension(W*D*H, mm)	600*505*1300	
Weight(Kg)	250	
Design Life	15+Years	
Operation Temperature (°C)	0~50	
Humidity	5%~95%	
Altitude	<2000	
Battery Module Qty.(Optional)	3~7 pcs	
Authentication Level	UL1973/VDE2510-50/IEC62619/CE	

### Powercube-H series 200 - 810Vdc



Basic Parameters	Powercube-H1 (720V50AH)	Powercube-H2 (576V74AH)
	H48050	H48074
Battery System Capacity(kWh)	36.00	42.62
Battery System Voltage(Vdc)	720	576
System Voltage Range(Vdc)	664~810	531~648
Efficiency	96%	96%
Depth of Discharge	90%	90%
Dimension(W*D*H, mm)	600*505*2130	600*505*2130
Weight(Kg)	400	450
Design Life	15+Years	15+Years
Operation Temperature (°C)	0~50	0~50
Humidity	5%~95%	5%~95%
Altitude	<2000	<2000
Battery Module Qty.(Optional)	5~15 pcs	5~12 pcs
Authentication Level	UL1973/IEC62619/VDE/CE	UL1973/IEC62619/CE

## High voltage energy storage system

Powercube-M1/M2  
Up to 1000Vdc  
Up to 1C peak Operation



Basic Parameters	Powercube-M1	Powercube-M2A-180
	736V148Ah	729.6V148Ah
Battery System Capacity(kWh)	108.93	107.98
Battery System Voltage(Vdc)	736	729.6
System Voltage Range(Vdc)	621 - 828	615.6 - 820.8
Efficiency	96%	96%
Depth of Discharge	90%	90%
Dimension(W*D*H, mm)	815*659*2130	803*855*2130
Weight(Kg)	1,250	1,228
Design Life	15+Years	15+Years
Operation Temperature (°C)	10~40	10~40
Humidity	5%-95%	5%-95%
Altitude	<2000	<2000
Battery Module Qty.(Optional)	1-23 pcs	1-19 pcs
Authentication Level	UL1973/IEC62619/VDE/CE	IEC62619/CE

Powercube-M3A-100  
Up to 1500Vdc  
0.5C continuous operation



Basic Parameters	Powercube-M3A-100	Powercube-M3A-100
	729.6V148Ah	1113.6V148Ah
Battery System Capacity(kWh)	107.98	164.81
Battery System Voltage(Vdc)	729.6	1113.6
System Voltage Range(Vdc)	615.6~820.8	939.6~1252.8
Efficiency	96%	96%
Depth of Discharge	90%	90%
Dimension(W*D*H, mm)	800*855*2130	1185*855*2130
Weight(Kg)	1,228	1,798
Design Life	15+Years	15+Years
Operation Temperature (°C)	10~40	10~40
Humidity	5%~95%	5%~95%
Altitude	<2000	<2000
Battery Module Qty.(Optional)	1-19 pcs	1-29 pcs
Authentication Level	UL1973/IEC62619/VDE/CE	UL1973/IEC62619/VDE/CE

## High voltage energy storage system

Powercube-M3A-180  
Up to 1500Vdc  
Cooling Fan equipped  
1C continuous operation



Basic Parameters	Powercube-M3A-180	Powercube-M3A-180
	729.6V148Ah	1113.6V148Ah
Battery System Capacity(kWh)	107.98	164.81
Battery System Voltage(Vdc)	729.6	1113.6
System Voltage Range(Vdc)	615.6~820.8	939.6~1252.8
Efficiency	96%	96%
Depth of Discharge	90%	90%
Dimension(W*D*H, mm)	803*855*2130	1365*855*2130
Weight(Kg)	1,285	1,885
Design Life	15+Years	15+Years
Operation Temperature (°C)	10~40	10~40
Humidity	5%~95%	5%~95%
Altitude	<2000	<2000
Battery Module Qty.(Optional)	1~19 pcs	1~29 pcs
Authentication Level	UL1973/IEC62619/VDE/CE	UL1973/IEC62619/VDE/CE

## Powercube-20H/40H



Basic Parameters	20ft High Voltage System Container		40ft High Voltage System Container	
Container System Type	<b>Powercube-20H-M1</b>		<b>Powercube-40H-M1</b>	
System Charge/Discharge Rate	0.5 C		0.5 C	
System Voltage Range(Vdc)	736(690-828)		736(690-828)	
System Capacity (kWh)	1296		2592	
Container System Type	<b>Powercube-20H-M2</b>		<b>Powercube-40H-M2</b>	
System Charge/Discharge Rate	0.5 C	0.5 C	0.5 C	0.5 C
System Voltage Range(Vdc)	806 (680-907)	1228 (1036-1382)	806 (680-907)	1228 (1036-1382)
System Capacity (kWh)	1432	1454	2983	3273
Container System Type	<b>Powercube-20H-M3</b>		<b>Powercube-40H-M3</b>	
System Charge/Discharge Rate	1 C	1 C	1 C	1 C
System Voltage Range(Vdc)	806(680-907)	1228(1036-1382)	806(680-907)	1228(1036-1382)
System Capacity (kWh)	1194	1091	2625	2546
Dimension (L*W*H,M)	6.058*2.438*2.896		12.192*2.438*2.896	
Ambient Temperature(°C)	-20~50			
Communication	CANBUS/ModbusTCP/IP			