

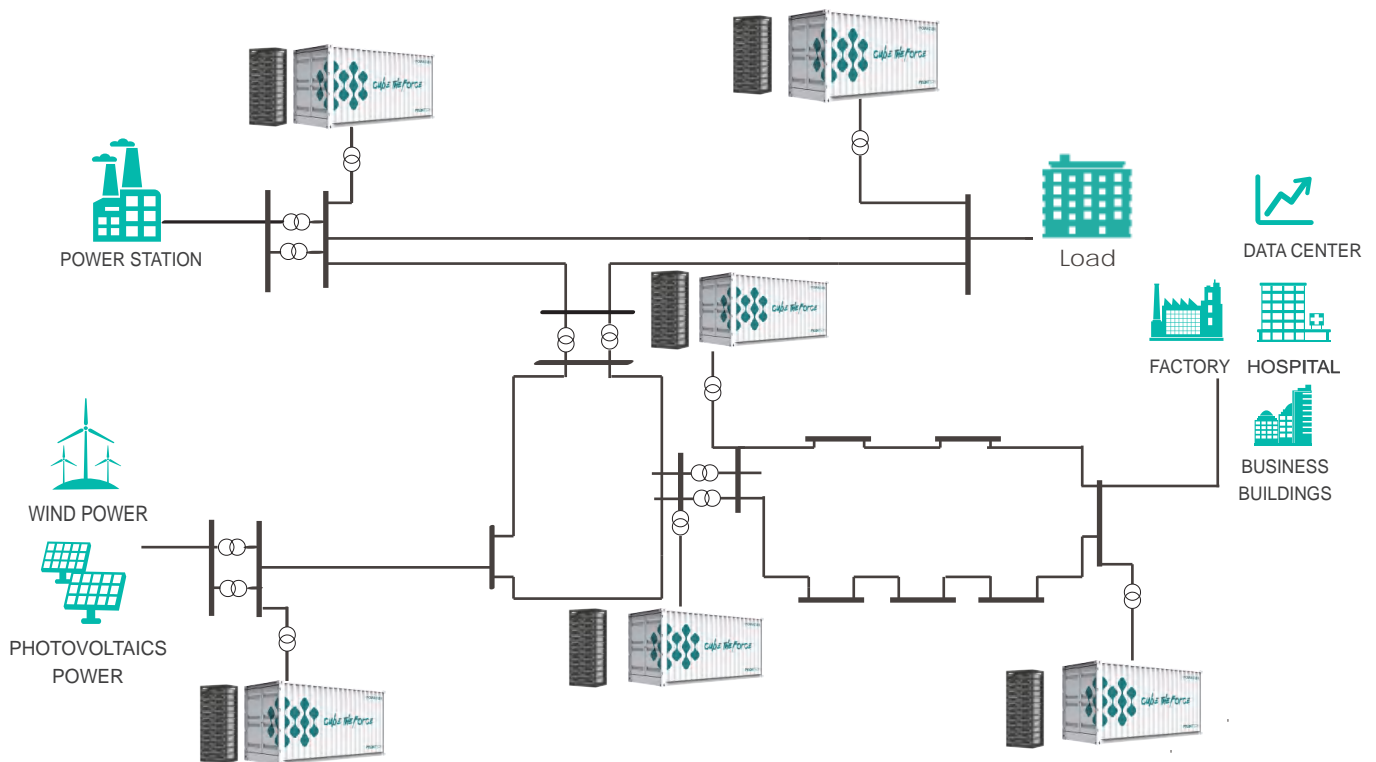


# HIGH VOLTAGE ENERGY STORAGE SYSTEM

# 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.



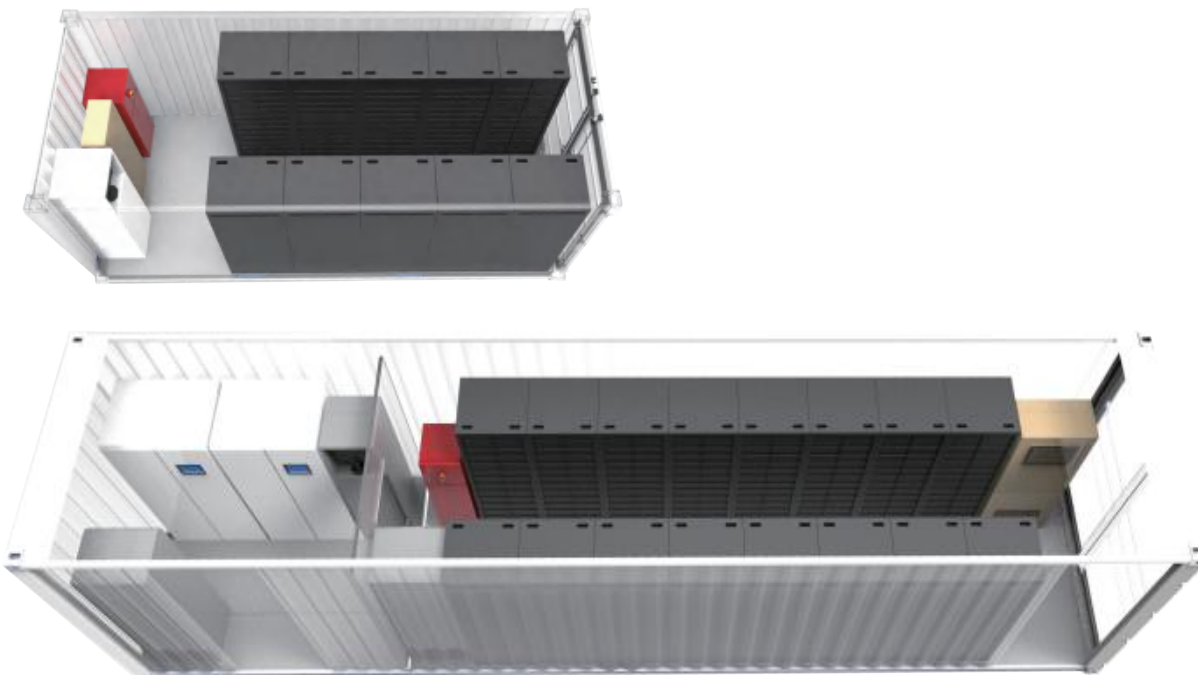
## Vertically integrated the whole lithium battery industrial chain



### 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                   | 10+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<br>(720V50AH) | Powercube-H2<br>(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                   | 10+Years                   | 10+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                |                  |                                    |                  |