



**PYLONTECH**

*Cube the Force*



**HIGH VOLTAGE  
ENERGY STORAGE SYSTEM**



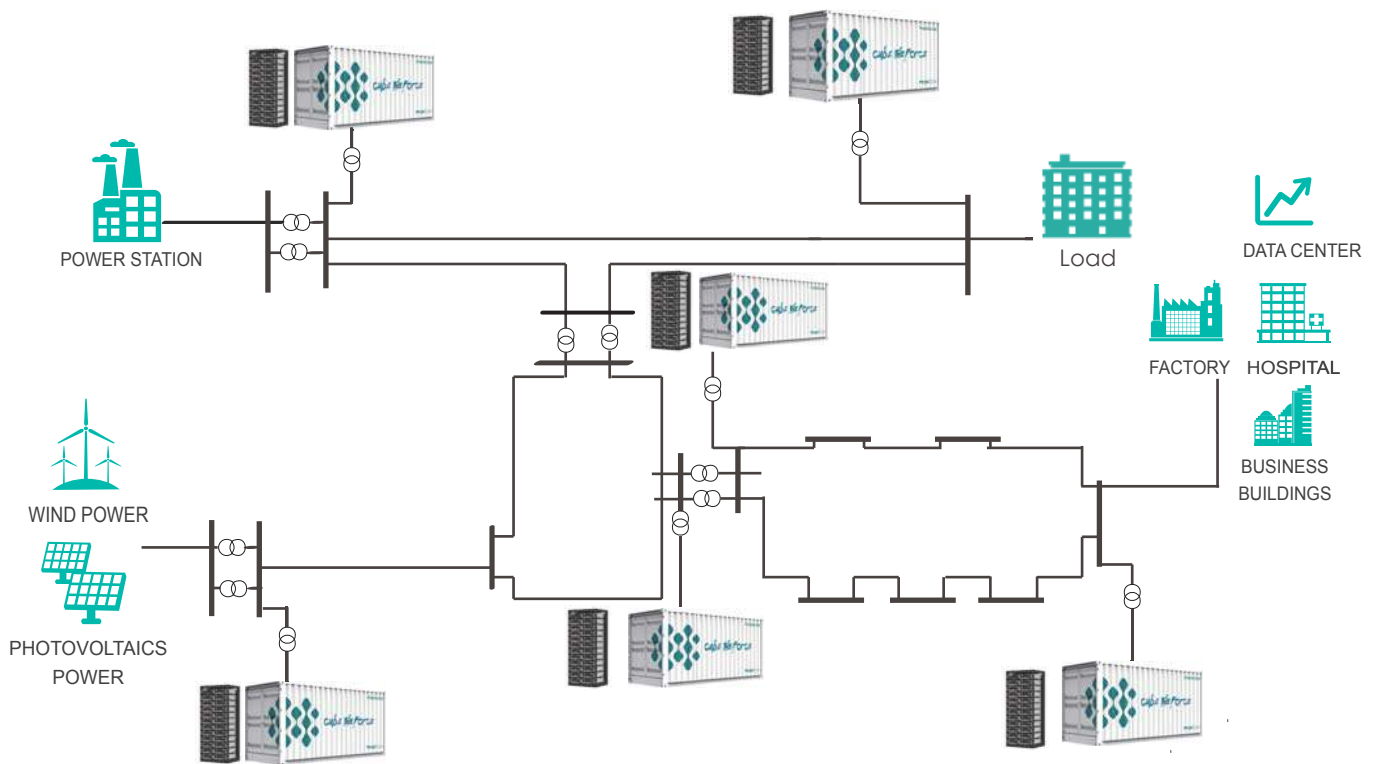
# The Force Awakens



# 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.



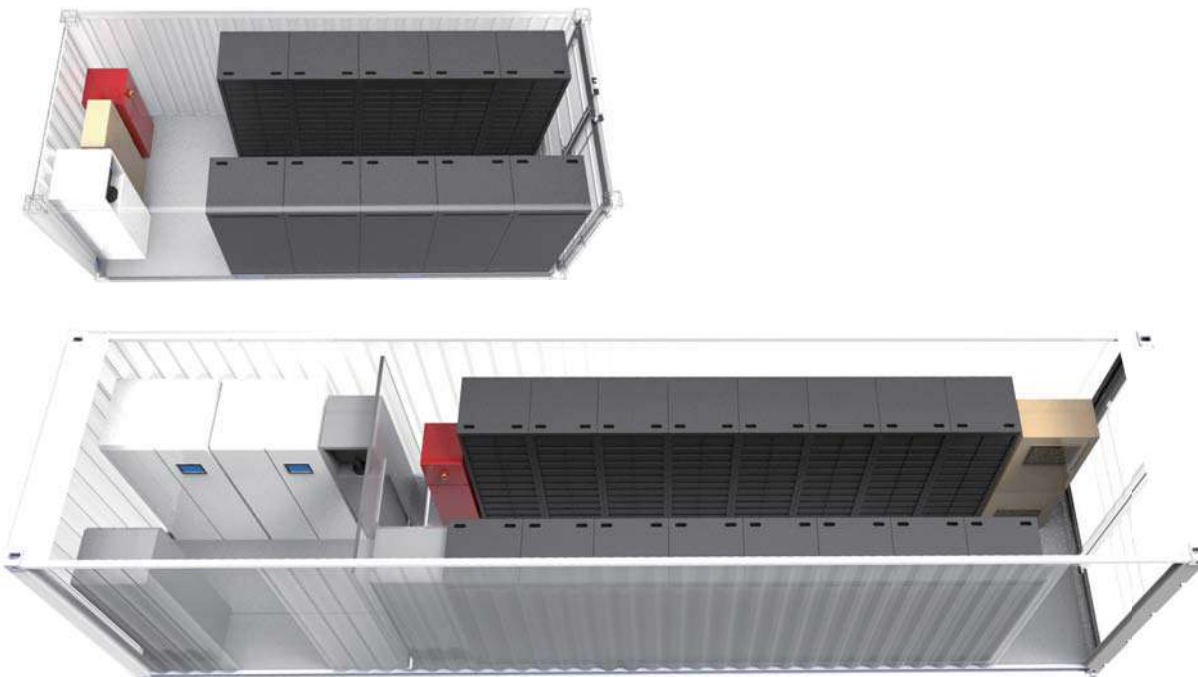
*Vertically integrated the whole lithium battery industrial chain*



*Key features:*

- 1, Vertical industry intergration chain
- 2, Modular design with different density, suits all scenarios.
- 3, Flixible voltage range from 100VDC to 1000VDC.
- 4, Three layer management system design delivers highest reliabiliy.
- 5, T Rack mounted or container based system configuration

*Layout of the Container*





## Specification

### Battery Management system



Models	SC0500-100S	SC1000-100S	SC1000-200E
Related Product	X1	H1/H2	M1
Controller Working Voltage	100~430Vdc	200~1000Vdc	220Vac
System Operation Voltage	100~430 Vdc	200~1000 Vdc	0~1000 Vdc
Charge Current (Max.)(A)	100	100	200
Discharge Voltage(Vdc)	100~430	200~1000	0~1000
Discharge Current (Max.) (A)	100	100	200
Self-Consumption Power (W)	8	8	8
Dimension(W*D*H, mm)	442*390*132	442*390*132	330*628*150.5
Communication	RS485/CAN	RS485/CAN	RS485/CAN
Protection Class	IP20	IP20	IP20
Weight (kg)	8.2	8.2	17.5
Operation Life	15 years	15 years	15 years
Operation Temperature	-20~65℃	-20~65℃	-20~65℃
Storage Temperature	-40~80℃	-40~80℃	-40~80℃
Product Certificate	TÜV,CE	TÜV,CE	TÜV,CE

### Battery Module



Models	H48050	H48074	H32148
Capacity(kWh)	2.40	3.55	4.74
Nominal Voltage(Vdc)	48	48	32
Nominal Capacity(AH)	50	74	148
Voltage Range(Vdc)	45~54	45~54	30~36
Depth of Discharge	80%(10~90%)	80%(10~90%)	80%(10~90%)
Dimension(W*D*H,mm)	442*390*100	442*390*132	330*628*150.5
Communication	RS485/CAN	RS485/CAN	RS485/CAN
Protection Class	IP20	IP20	IP20
Weight(kg)	24	32	48
Operation Life	10+Years	10+Years	10+Years
Operation Cycle Life	4000	4000	4000
Operation Temperature	0~50℃	0~50℃	0~50℃
Storage Temperature	-20~60℃	-20~60℃	-20~60℃
Product Certificate	TÜV,CE	TÜV,CE	TÜV,CE

## Energy Storage System



Models	POWERCUBE-X1 (336V50AH)	POWERCUBE-H1 (720V50AH)	POWERCUBE-H2 (576V74AH)	POWERCUBE-M1 (736V148AH)
Battery System Capacity (kWh)	16.8	36	42.62	108.93
Battery System Voltage (Vdc)	336	720	576	736
Battery System Capacity (AH)	50	50	74	148
Battery Module	H48050	H48050	H48074	H32148
Battery Module Capacity (kWh)	2.40	2.40	3.55	4.74
Battery Module Quantity (pcs)	7	15	12	23
Battery System Charge Upper-Voltage (Vdc)	378	810	648	828
Battery System Charge Current (Standard)	10	10	15	30
Battery System Charge Current (Normal)	25	25	37	74
Battery System Charge Current (Max.)	50	50	74	148
Battery System Discharge lower-Voltage (Vdc)	315	675	540	690
Efficiency	96%	96%	96%	96%
Depth of Discharge	80% (10~90%)	80% (10~90%)	80%(10~90%)	80%(10~90%)
Dimension(W*D*H, mm)	600*505*1300	600*505*2140	600*505*2140	815*659*2130
Weight (kg)	250	400	450	1,250
Operation Life	10+Years	10+Years	10+Years	10+Years
Operation Cycle Life	3,500	3,500	3,500	3,500
Operation Temperature	0~50℃	0~50℃	0~50℃	10~40℃
Storage Temperature	-20~60℃	-20~60℃	-20~60℃	-20~60℃
Battery Modules Qty. (Optional)	3~7 pcs	5~15 pcs	5~12 pcs	1~23 pcs
Product Certificate	TÜV,CE	TÜV,CE	TÜV,CE	TÜV,CE

## PowerCube



Models	20 ft High Voltage System Container	40 ft High Voltage System Container
	POWERCUBE-20H	POWERCUBE-40H
System Capacity (MWh)	1.3	2.6
System Voltage Range(Vdc)	736(690-828)	736(690-828)
Dimension(W*D*H, M)	6.058×2.438×2.896	12.192×2.438×2.896
Weight(Ton)	18	35
Ambient Temperature	-20~50℃	-20~50℃
Communication	CAN/RS485	CAN/RS485

System design can be customized according to the requirement