

Cube the Force



HIGH VOLTAGE ENERGY STORAGE SYSTEM

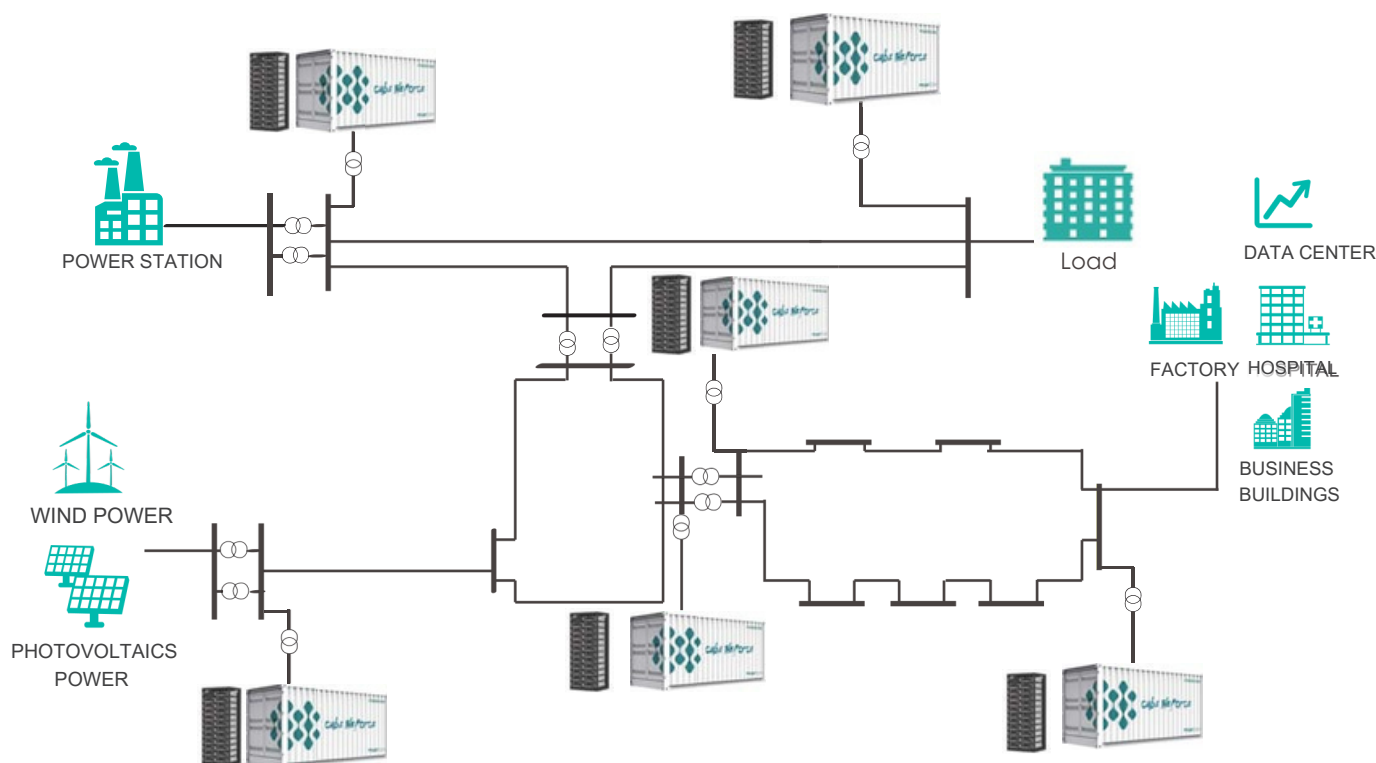
The Force Awakens



Pylon Technologies Co., Ltd.

Along with the wide deployed residential ESS Phantomseries, 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.



Future line s.r.o.

IČ: 25682555

Náměstí Přemyslovců 16/9,
288 02 Nymburk



www.future-charger.cz



obchod@future-charger.cz



+420 732 91 61 66



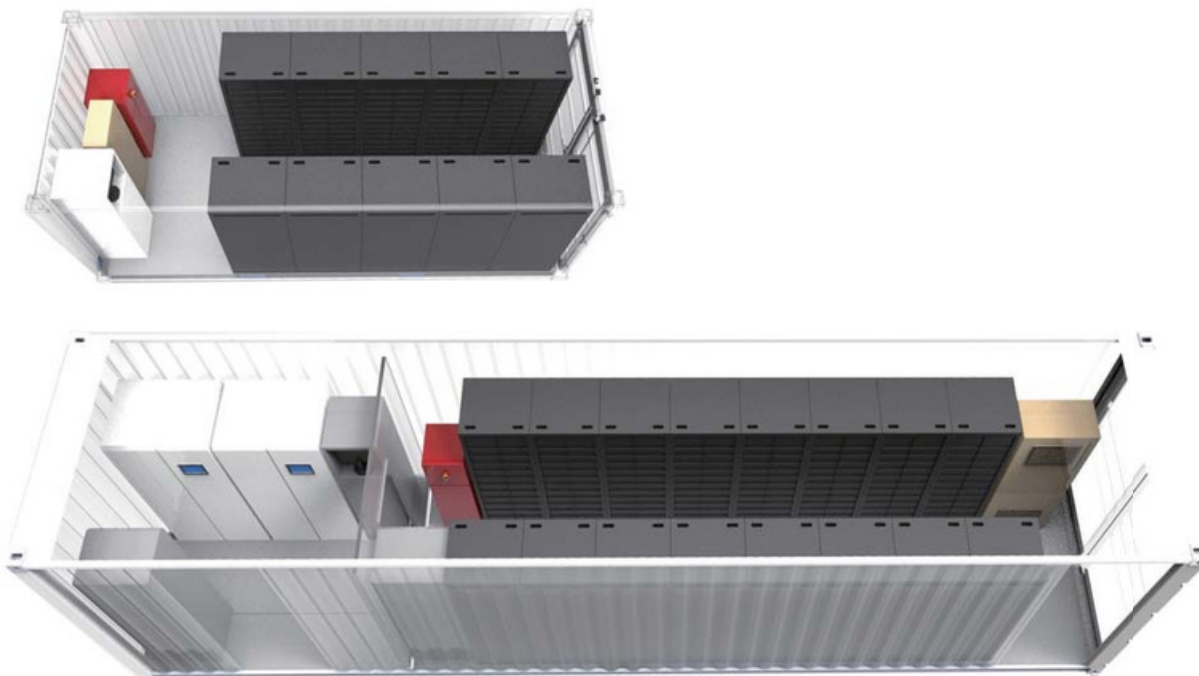
Vertically integrated the whole lithium battery industrial chain



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 reliabilitiy.
- 5, T Rack mounted or container based system configuration

Layout of the Container



Specification

Battery Management system



Models	Related Product	SC0500-100S	SC1000-100S	SC1000-200E
Controller Working Voltage		X1	H1/H2	M1
System Operation Voltage		100~430Vdc	200~1000Vdc	220Vac
Charge Current (Max.) (A)		100~430 Vdc	200~1000 Vdc	0~1000 Vdc
Discharge Voltage(Vdc)		100	100	200
Discharge Current (Max.) (A)		100~430	200~1000	0~1000
Self-Consumption Power (W)		100	100	200
Dimension(W*D*H, mm)		8	8	8
Communication Protection		442*390*132	442*390*132	330*628*150.5
Class Weight (kg) Operation		RS485/CAN	RS485/CAN	RS485/CAN
Life Operation Temperature		IP20	IP20	IP20
Storage Temperature		8.2	8.2	17.5
Product Certificate		15 years	15 years	15 years
		-20~65℃	-20~65℃	-20~65℃
		-40~80℃	-40~80℃	-40~80℃
		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 Battery System Capacity (kWh)	POWERCUBE-X1 (336V50AH)	POWERCUBE-H1 (720V50AH)	POWERCUBE-H2 (576V74AH)	POWERCUBE-M1 (736V148AH)
Battery System Voltage (Vdc)	16.8	36	42.62	108.93
Battery System Capacity (AH)	336	720	576	736
Battery Module	50	50	74	148
Battery Module Capacity (kWh)	H48050	H48050	H48074	H32148
Battery Module Quantity (pcs)	2.40	2.40	3.55	4.74
Battery System Charge Upper-Voltage (Vdc)	7	15	12	23
Battery System Charge Current (Standard)	378	810	648	828
Battery System Charge Current (Normal)	10	10	15	30
Battery System Charge Current (Max.)	25	25	37	74
Battery System Discharge lower-Voltage (Vdc)	50	50	74	148
Efficiency	315	675	540	690
Depth of Discharge	96%	96%	96%	96%
Dimension(W*D*H, mm)	80% (10~90%)	80% (10~90%)	80%(10~90%)	80%(10~90%)
Weight*kg ^v	600*505*1300	600*505*2140	600*505*2140	815*659*2130
Operation Life	250	400	450	1,250
Operation Cycle Life	10+Years	10+Years	10+Years	10+Years
Operation Temperature	3,500	3,500	3,500	3,500
Storage Temperature	0~50℃	0~50℃	0~50℃	10~40℃
Battery Modules Qty. (Optional)	-20~60℃	-20~60℃	-20~60℃	-20~60℃
Product Certificate	3~7 pcs	5~15 pcs	5~12 pcs	1~23 pcs
	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

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