



RESIDENTIAL BATTERY ENERGY STORAGE

Product Portfolio



TO ENERGIZE BILLIONS WITH SMARTER POWER

10+ Years

Dedication to ESS

13+ GWh

Production Capacity Only for ESS

80+

Countries Delivered

1,000,000+

ESS Global Delivery

World's Leading

ESS Supplier

ABOUT PYLONTECH

Pylontech is a dedicated BESS (Battery Energy Storage System) provider, consolidating expertise in electrochemistry, power electronics, and system integration to deliver reliable BESS solutions globally. With its continuous and rapid growth, it has become a leading supplier of lithium battery energy storage systems worldwide.

Over the past decade we have been redefining electric power generation, storage and usage with our partners globally. Continuous innovation and broad collaboration is the only route to an efficient, sustainable and affordable new energy structure. We strongly believe in the carbon neutral commitments from global leaders and strive to contribute our passion into the movement.



PYLONTECH



Flexible Solutions

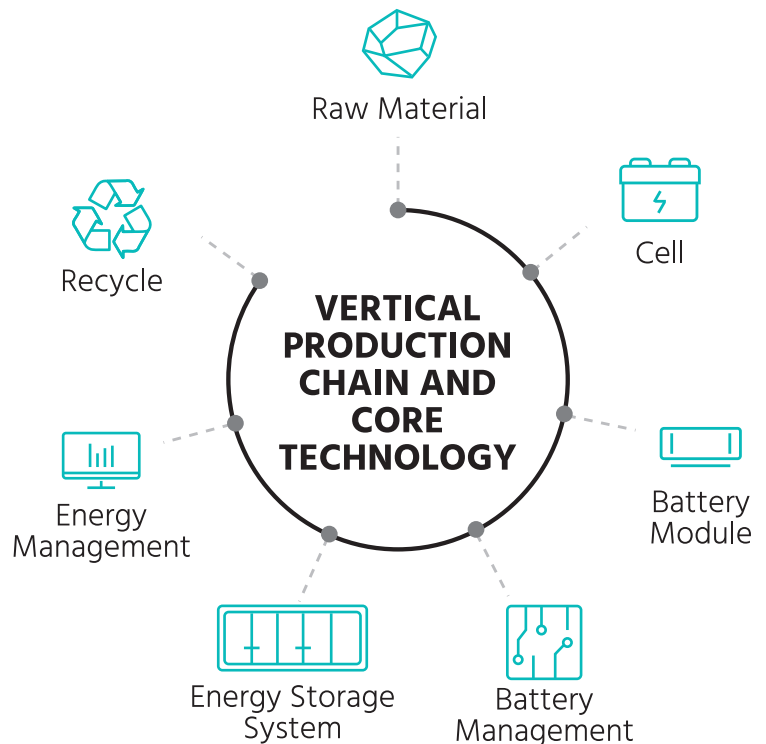
Solution portfolio ranges from 12v to 1500v rigorously tested to global certification standards
 ess-focused solutions begin with cell design

Strong R&D

12% R&D Investment with an Expanding Team
 431 Self-Developed Patents and Counting
 15+ Years of In-House Engineered BMS

Vertical Integration

Total production chain core technology
 enhanced reliability and quality control
 advanced intelligent production lines



(Data as of Q1 2024)

GLOBAL PRESENCE

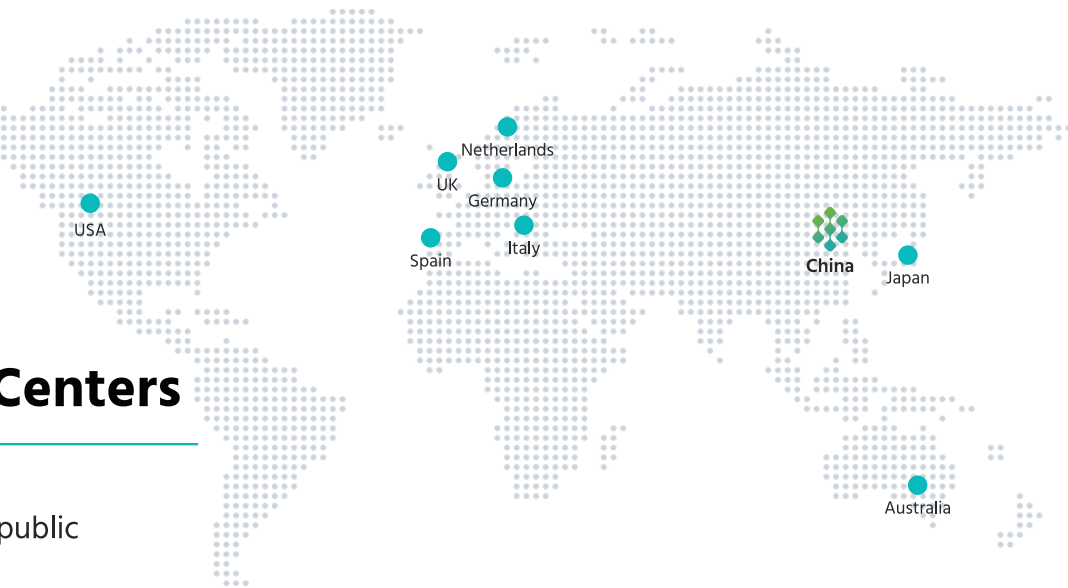
Headquarter & Global Branches

Headquarter

China

Branches

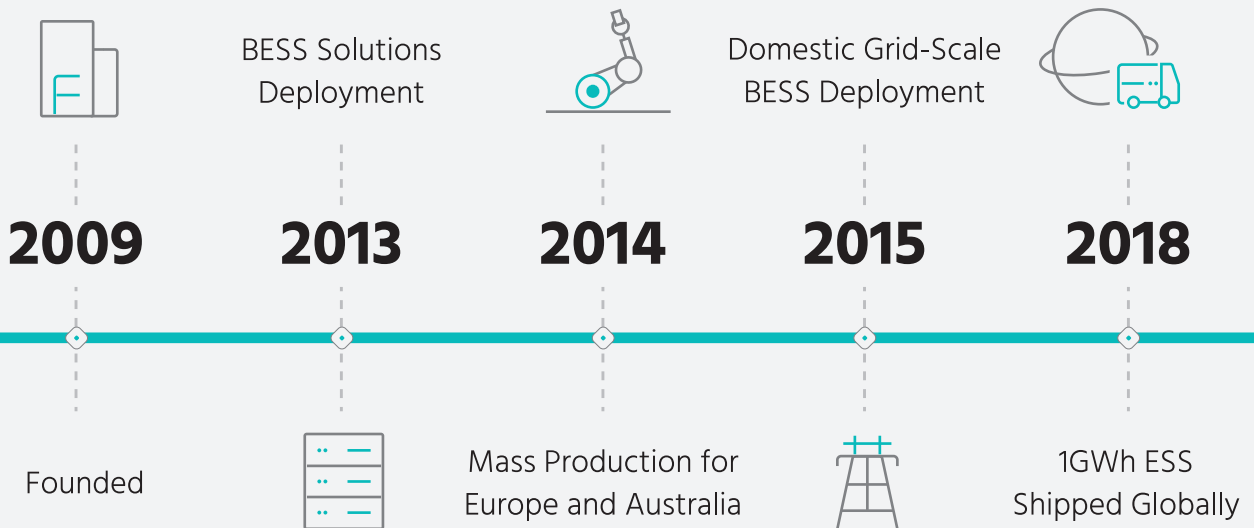
Netherlands	UK
Germany	USA
Spain	Italy
Australia (In Progress)	Japan (In Progress)



Global Service Centers

UK	Spain
Germany	Czech Republic
Italy	Belgium
North America	South Africa
South America	Australia
Mexico	

(Data as of Q1 2024)



PYLONTECH SOLUTIONS

Consumer Storage Battery

12V RV Battery
Portable Battery
High C-Rate Battery

Renewable Energy Integration

Solar and Wind Smoothing
Firming Renewable Output

Grid Service

Energy Arbitrage
Peak Shaving
Load Shifting
Frequency Regulation

Backup Power

UPS
Emergency Power

Distributed Energy

Microgrid Stabilization
Off-grid Power System
V2G
VPP

Customer Application

Time-Of-Use
Self-Consumption
Demand Charge Reduction

1.5GWh Additional Capacity Built

2019

15_{GWH}



2020

First Listed ESS Company in China

No.1 Residential ESS Provider Globally

2022



2023

First Europe Manufacturer Base Built

WHY RESIDENTIAL ESS?



Save Energy, Save Money

Take charge of your energy usage and lower your bills by storing electricity during off-peak times and using it when rates are high, maximizing savings and sustainability.



Reliable Power, Peace of Mind

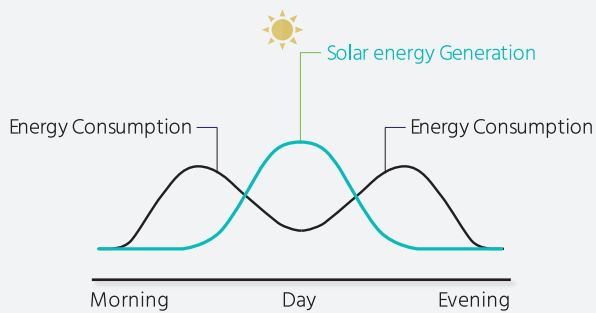
Our energy storage system ensures your home stays powered, even during outages, with uninterrupted electricity for your essential needs.



Go Green, Stay Independent

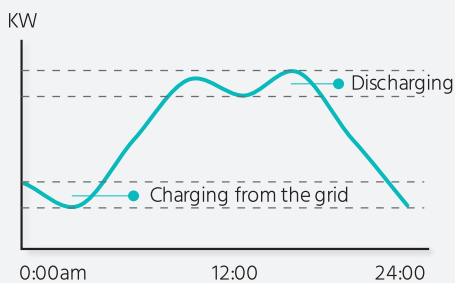
With Pylontech battery storage system, harness the power of renewables, reducing your carbon footprint and embracing a brighter, cleaner future for your home and the planet.

SAVE ON BILLS WITH RESIDENTIAL ESS



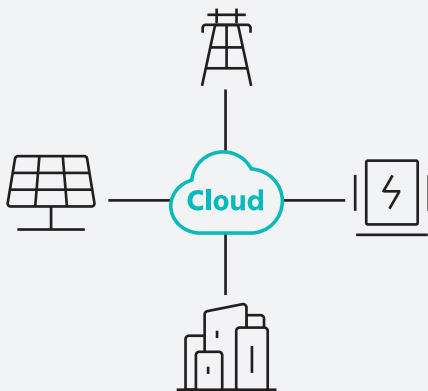
Load Shifting

Reschedule energy-intensive operations to periods when electricity tariffs are at their lowest, and utilize stored surplus energy during peak demand hours.



Peak Shaving

Use stored energy during peak demand hours to reduce reliance on grid electricity and avoid high rates



Community Energy

Participate in community energy programs to contribute excess energy to the grid, earning credits and further reducing costs.

WHY PYLONTECH RESIDENTIAL ESS?



Efficiency and Reliability



Safety and Security



Flexible Expansion



Smart Management



Maximize Battery Lifespan



Scan to Check
the Full List

Strong Compatibility

- **Wide Range of Options**
- **Compatible with Various Inverter Brands**



RESIDENTIAL ESS PRODUCT PORTFOLIO

LFP Technology

Low Voltage Battery

Stackable

- Pelio
- Force L Series

Rack-mounted

- US Series
- UF Series

High Voltage Battery

Stackable

- Force H Series

Rack-mounted

- Powercube X/H



LOW-VOLTAGE RESIDENTIAL ESS



Ideal for Back Up

Tailored for off grid system .



Cost-Effective

More affordable for both initial investment and ongoing maintenance
Safe and Reliable .



Ease for Installation

Simple setup, ideal for DIY systems .



Safe and Reliable

Operates at a lower risk level, ensuring safety in homes .



POWER ON
DEMAND

US Series

 Flexible for Mixed Usage

 Free to Scale Up

 19inch Rack Compatible

 High Power Efficiency



Module	US2000C	US3000C	US5000	
Nominal Voltage (VDC)	48	48	48	
Nominal Capacity (kWh)	2.4	3.55	4.8	
Usable Capacity (kWh)	2.28	3.37	4.56	
Dimension (W*D*H mm)	442*410*89	442*410*132	442*420*161	
Weight (kg)	22.5	32	39.7	
Depth of Discharge	95%	95%	95%	
Charge/ Discharge (A)	(Normal)	25	37	
	(Max)	50-89 @60s	74-89 @60s	101-120 @15min
	(Peak)	90-200 @15s	90-200 @15s	121-200 @15s
Communication Port		RS485/CAN		
Single String Quantity (pcs)	16	16	16	
Working Temperature/ (°C) Charge		0~50		
Working Temperature/ (°C) Discharge		-10~50		
Storage Temperature/ (°C)		-20~60		
Short current/duration time (A)	<4000/2ms	<4000/2ms	<2000/1ms	
IP rating		IP20		
Humidity (RH)		5%-95% No Condensation		
Altitude (m)		<4000		
Design life (@25°C)	15+ Years	15+ Years	15+ Years	
Cycle Life (@25°C)	>8,000	>8,000	> 8,000	
Certification	UL1642/ IEC62619 /IEC63056 /IEC61000-6-2/3 UN38.3	UL1973 /UL1642 /UL9540A/VDE2510-50 /IEC63056/IEC62619 /IEC62040/IEC62477-1 /IEC61000-6-2/UN38.3	UL1973/UL9540A IEC62619/IEC63056 /IEC61000-6-2/3 /UN38.3	

PELIO



Smaller Footprint

higher energy density benefit from latest LFP technology



Expandable

Modular design
Maximum 102.4kWh (20 Modules)



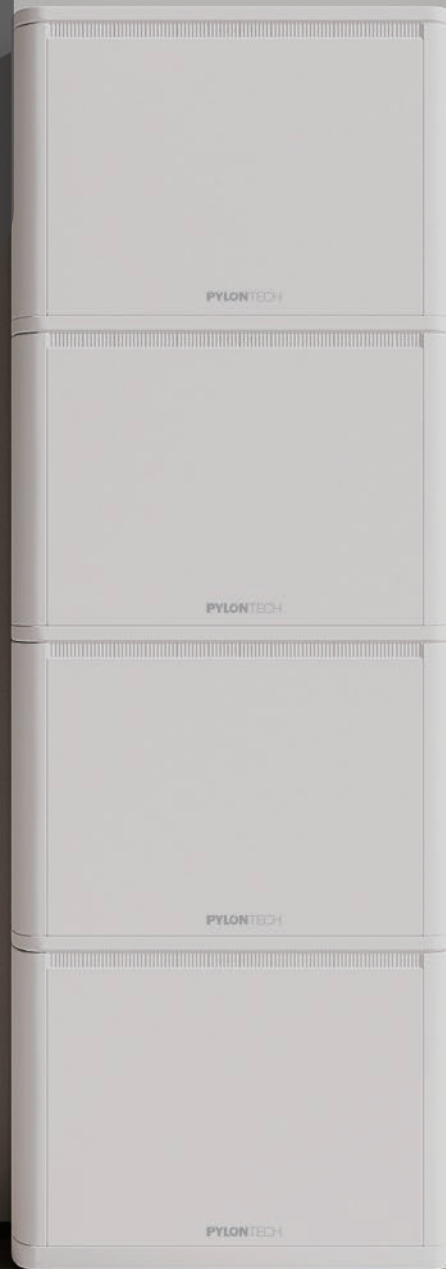
High Power Efficiency

Continuous power 5.12kw
Peak power 10.24kw@15s



Monitor 24/7

Real-time monitoring of battery charging and discharging, online system updates and maintenance



iOS QR Code



Android/Harmony
QR Code

Pelio



Module

	1 (W*/G*)	2 (W*/G*)	3 (W*/G*)	4 (G*)
Battery System Capacity (kWh)	5.12	10.24	15.36	20.48
Battery Nominal Voltage (VDC)	51.2			
Dimension (W*D*H mm)	578*165*395	578*165*790	578*165*1185	578*165*1580
Weight (kg)	45	90	135	180
Depth of Discharge	95%			
Charge/	(Normal) 100			
Discharge	(Max) 101-120 @15min			
(A)	(Peak) 121-200 @15s			
Single String Quantity (pcs)	20 (Max. 4 in 1 group)			
Communication Port	RS485/CAN			
IP rating	IP65			
Working Temperature/ (°C)	0°C-50°C Charge, -10°C-50°C Discharge			
Storage Temperature/ (°C)	0°C-40°C(6 months), -20°C-45°C(3 months)			
Humidity (RH)	5%-95% No Condensation			
Altitude (m)	<4,000			
Design Life (@25°C)	15+ Years			
Cycle Life (@25°C)	>8,000			
Certification	IEC62619, IEC63056, IEC62040, IEC62477-1, UL1973, U1642,UL9540A, VDE2510-50, IEC61000-6-2, IEC61000-6-3, UN38.3			

* W: Wall Mounted Installation
G: Ground Mounted Installation

Force-L1



Safe and Reliable



Free to Scale Up



Plug & Play



Remote Maintenance



Module

	2	3	4	5	6	7
Battery Module	FL48074					
Battery System Capacity (kWh)	7.1	10.65	14.21	17.76	21.31	24.86
Battery Nominal Voltage (VDC)	48					
Dimension (W*D*H mm)	600*380*530	600*380*700	600*380*870	600*380*1040	600*380*1210	600*380*1380
Weight (kg)	86.5	123	159.5	196	232.5	269
Depth of Discharge	95%					
Charge/Discharge (A)	(Normal) 75 (Max) 110 @15S	100	100	100	100	100
Multi-group	Max. 6 groups in parallel					
Communication Port	RS485/CAN					
IP rating	IP55					
Working Temperature/ (°C)	0~50					
Storage Temperature/ (°C)	-20~60					
Humidity (RH)	5%-95% No Condensation					
Altitude (m)	<2,000					
Design Life (@25°C)	15+ Years					
Cycle Life (@25°C)	>8,000					
Certification	VDE2510-50/IEC62619/IEC62477/CE UN38.3					

Force-L2



Safe and Reliable



Plug & Play



Free to Scale Up



Remote Maintenance



2



3



4

Module

Battery Module	FL4874M		
Battery System Capacity (kWh)	7.1	10.65	14.21
Battery Nominal Voltage (VDC)	48		
Dimension (W*D*H mm)	450*296*822	450*296*1118	450*296*1414
Weight (kg)	82	117.5	153
Depth of Discharge	95%		
Charge/Discharge (A)	(Normal) 75 (Max)	100 110 @15S	100
Multi-group	Max. 6 groups in parallel		
Communication Port	RS485/CAN		
IP rating	IP55		
Working Temperature/ (°C)	0-50		
Storage Temperature/ (°C)	-20-60		
Humidity (RH)	5%-95% No Condensation		
Altitude (m)	<2,000		
Design Life (@25°C)	15+ Years		
Cycle Life (@25°C)	>8,000		
Certification	VDE2510-50/IEC62619/IEC62477-1/CEC/UN38.3		

HIGH-VOLTAGE RESIDENTIAL ESS



High Efficiency

Reduces energy loss, perfect for long-distance transmission and heavy-duty applications .



Advanced Safety

Higher standards fulfilled for safely managing high energy outputs .



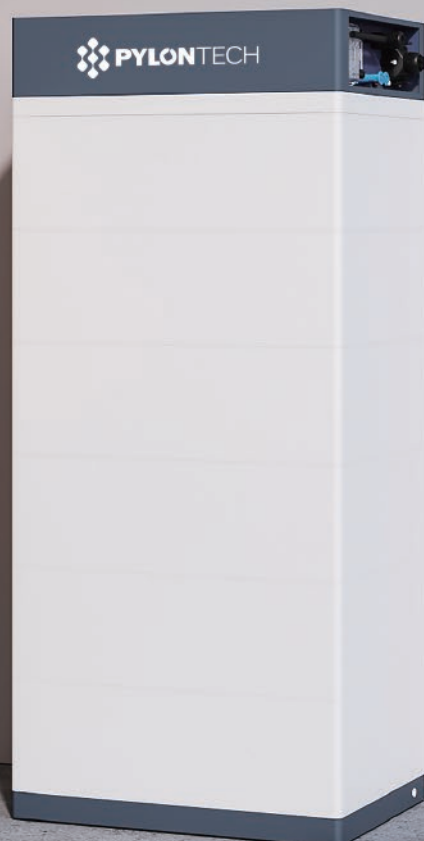
Safe and Reliable

Long life-cycle guaranteed & Optimal ROI .



Intelligent Control

AI- Driven algorithm supports better return and longer life span .



**GREEN,
EFFICIENT
AND SMART**

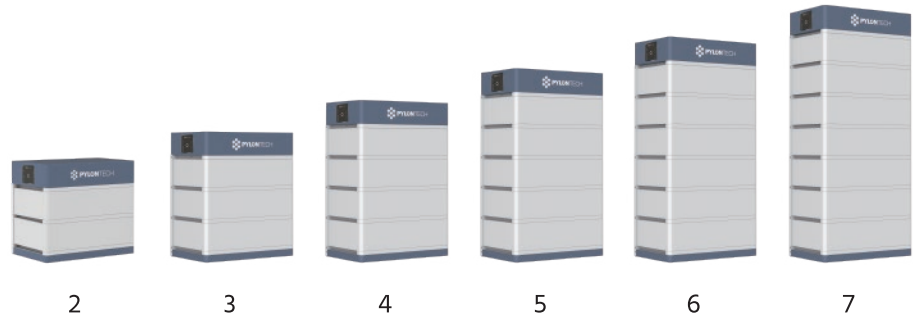
Force-H1

 **Maximum Scalability**

 **Flexible Mounting**

 **Plug & Play**

 **Remote Maintenance**



Module

Battery Module	FH48074					
Battery Module Voltage (VDC)	48					
Battery Module Capacity (kWh)	3.55					
Battery Module Qty.	2	3	4	5	6	7
Battery System Voltage (V)	96	144	192	240	288	336
Battery System Capacity (kWh)	7.1	10.65	14.21	17.76	21.31	24.86
Usable capacity (kWh)	6.75	10.12	13.50	16.87	20.24	23.62
Dimension (W*D*H mm)	600*380*530	600*380*700	600*380*870	600*380*1040	600*380*1210	600*380*1380
Weight (kg)	86	122	158	194	230	266
Depth of Discharge	95%					
Charge/Discharge (A)	(Normal)	37				
	(Max)	42 @15S				
Multi-group	Max. 6 groups in parallel					
Communication	Modbus RTU/CAN					
IP rating	IP55					
Working Temperature/ (°C)	0-50					
Storage Temperature/ (°C)	-20-60					
Humidity (RH)	5%-95% No Condensation					
Altitude (m)	<2000					
Design Life (@25°C)	15+ Years					
Cycle Life (@25°C)	>8,000					
Certification	UL1973/VDE2510-50/IEC62619/IEC62477/ IEC62040-1/CE/UN38.3					

Force-H2

 **Maximum Scalability**

 **Flexible Mounting**

 **Plug & Play**

 **Remote Maintenance**



Module

Battery Module	FH9637M			
Battery Module Voltage (VDC)	96			
Battery Module Capacity (kWh)	3.55			
Battery Module Qty	2	3	4	5
Battery System Voltage (V)	192	288	384	480
Battery System Capacity (kWh)	7.1	10.65	14.21	17.76
Usable Capacity (kWh)	6.75	10.12	13.50	16.87
Dimension (W*D*H mm)	450*296*822	450*296*1118	450*296*1414	450*296*1710
Weight (kg)	82	117.5	152	188.5
Depth of Discharge	95%			
Charge/Discharge (A)	(Normal)	18.5		
	(Max)	42 @15s		
Multi-group	Max. 6 groups in parallel			
Communication	Modbus RTU/CAN			
IP rating	IP55			
Working Temperature/ (°C)	0-50			
Storage Temperature/ (°C)	-20-60			
Humidity (RH)	5%-95% No Condensation			
Altitude (m)	<2000			
Design Life (@25°C)	15+ Years			
Cycle Life (@25°C)	>8,000			
Certification	VDE-AR-E 2510-50/ IEC62619/IEC63056/IEC62040-1/CEC/CE			

Force-H3



Maximum Scalability



Flexible & Easy Installation



Higher Density & Efficiency



Remote Maintenance



Module

	2	3	4	5	6	7
Battery Module	FH10050					
Battery Module Voltage (VDC)	102.4					
Battery Module Capacity (kWh)	5.12					
Battery Module Qty	2	3	4	5	6	7
Battery System Voltage (V)	204.8	307.2	409.6	512.0	614.4	716.8
Battery System Capacity (kWh)	10.24	15.36	20.48	25.60	30.72	35.84
Usable Capacity (kWh)	9.69	14.73	19.48	24.32	29.17	34.01
Dimension (W*D*H mm)	540*350*530	540*350*700	540*350*870	540*350*1040	540*350*1210	540*350*1380
Weight (kg)	92	131	170	209	248	287
Depth of Discharge	95%					
Charge/ (Normal)	50					
Discharge (A) (Max)	55 @15min					
Multi-group	Max. 6 groups in parallel					
Communication	Modbus RTU/CAN					
IP rating	IP55					
Working Temperature/ °C	-10-50					
Storage Temperature/ °C	-20-60					
Humidity (RH)	5%-95% No Condensation					
Altitude (m)	<4000					
Design Life (@25°C)	15+ Years					
Cycle Life (@25°C)	>8,000					
Certification	UL9540A/UL1973/IEC62619/IEC63056/IEC62040-1/VDE-AR-E 2510-50/IEC62477-1/UN38.3					

Powercube X1/H1



Module

Powercube X1

Powercube H1

Battery System Capacity (kWh)	2.4*n	
Battery System Voltage (VDC)	48*n	
Main Controller	SC0500-40S/SC500-100S	SC1000-100S
Controller Working Voltage	60-600	200-1000
Controller Charge/Discharge Current(Max.) (A)	40/100	100
Controller Dimension(W*D*H)	442*390*87/442*390*132	442*390*132
Battery Module	H48050	
Battery Module Capacity (kWh)	2.4	
Battery Module Dimension (mm)	442*390*100	
Battery Modules Qty. (Optional)	2~10	5~18
Battery System Charge Upper-Voltage(Vdc)	54*n	
Battery System Discharge lower-Voltage(Vdc)	43.5*n	
Charge/Discharge (A)	(Normal)	25
	(Max)	50 @15s
Efficiency	96%	
Depth of Discharge	95%	
Dimension(W*D*H, mm)	600*505*1300 (8 Modules+1 BMS)	600*505*2130 (15 Modules+1 BMS)
Communication	Modbus RTU/CAN/LAN	
Weight (kg)	55+24*n/57+24*n	83+24*n
Operation Life	10+Years	
Operation Temperature	10-40°C	
Storage Temperature	-20-60°C	
Humidity (RH)	5%-95% No Condensation	
Altitude (m)	<2000	
Cycle Life (@25°C)	>7,000	
Certification	IEC62619/VDE2510-50/UL1973/CE/CEC	

Powercube X2/H2



Module

Powercube X2

Powercube H2

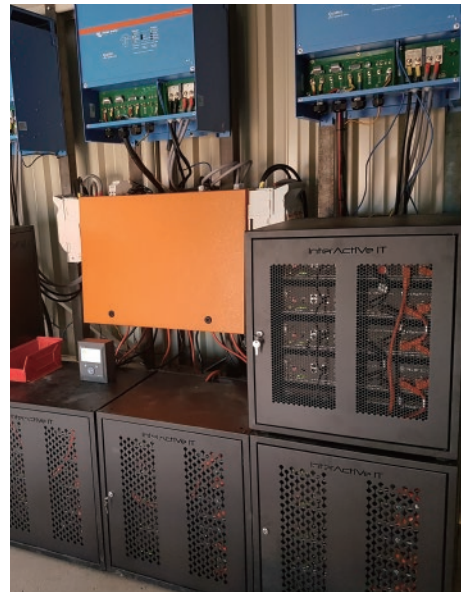
Battery System Capacity (kWh)	3.55*n	
Battery System Voltage (VDC)	48*n	
Main Controller	SC0500-40S/SC500-100S	SC1000-100S
Controller Working Voltage	60-600	200-1000
Controller Charge/Discharge Current(Max.) (A)	40/100/100	
Controller Dimension(W*D*H)	442*390*87/442*390*132/442*390*132	
Battery Module	H48074	
Battery Module Capacity (kWh)	3.55	
Battery Module Dimension (mm)	442*390*132	
Battery Modules Qty. (Optional)	2~10	5~18
Battery System Charge Upper-Voltage(Vdc)	54*n	
Battery System Discharge lower-Voltage(Vdc)	43.5*n	
Charge/Discharge (A)	(Normal)	37
	(Max)	74 @15s
Efficiency	96%	
Depth of Discharge	95%	
Dimension(W*D*H, mm)	600*505*1380 (7 Modules+1 BMS)	600*505*2130 (12 Modules+1 BMS)
Communication	Modbus RTU/CAN/LAN	
Weight (kg)	56+32*n/58+32*n	77+32*n
Operation Life	10+Years	
Operation Temperature	10-40°C	
Storage Temperature	-20-60°C	
Humidity (RH)	5%-95% No Condensation	
Altitude (m)	<2000	
Cycle Life (@25°C)	>7,000	
Certification	IEC62619/VDE2510-50/UL1973/CE/CEC	

GLOBAL DELIVERY

Empowering Homes Worldwide
with Versatile Energy Storage Solutions



80+ Countries Delivered
1,000,000+ ESS Globally Served





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