



COMPANY & PRODUCT INTRODUCTION

◆ ABOUT PYLONTECH

VISION

To energize billions with smarter power

A **long-termist** in the industry, starting from 2009 and delivered the first energy storage system back in 2013.

The **first publicly listed company** in China in 2020 with a primary focus on **energy storage** as its core business.

Integrating industrial chain: cells, BMS and system integration.



◆ STRONG R&D CAPABILITIES

8.56%

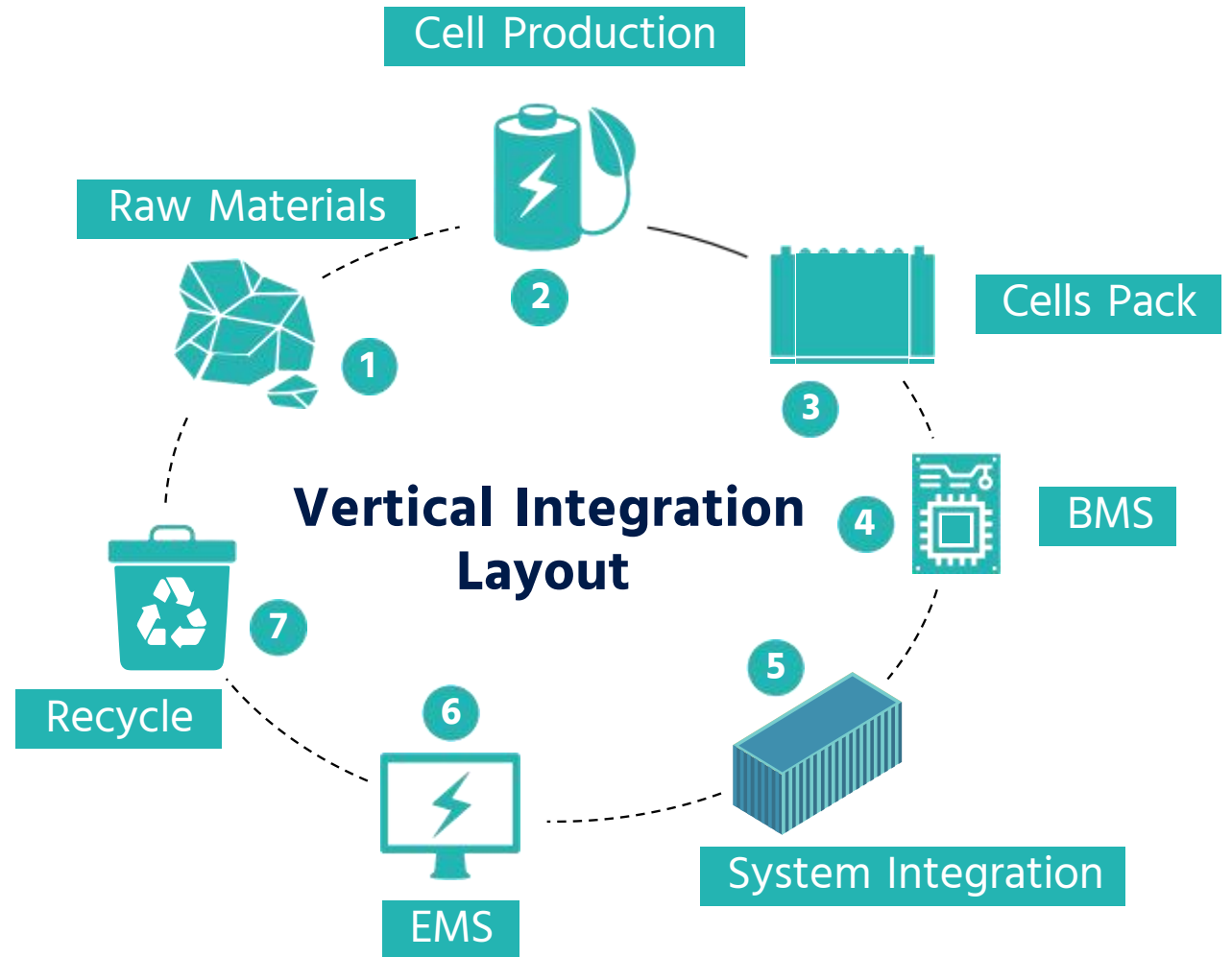
R&D Investment

30.66%

The ratio of research and development (R&D) personnel

238+

Independently-Developed Patents



◆ STRONG R&D CAPABILITIES

- Top Reliability Certified
- Product Design Suitable for Global World
- Fair Trade for Global Customer



Global Certifications		
IEC62477-1	UL1973	UKCA
IEC62040-1	UL9540A	CE LVD
IEC62619		CE EMC
IEC63056		UN38.3
		VDE-AR-E
		2510-50



PYLONTECH

Our Mission

Liberating Your Energy Sustainably

Our Value

To Energize Billions With Smarter Power

Original Lithium Battery Manufacturer

13.5 GWh+

Battery Production
Capacity Only for BESS

**VERTICAL
INTEGRATION**

Vertical production chain from raw
materials to system levels

10 Years+ Dedication

Top 1

Residential BESS
Supplier Globally

1.000.000+

1 Million+ BESS Systems
Delivered Since 2013

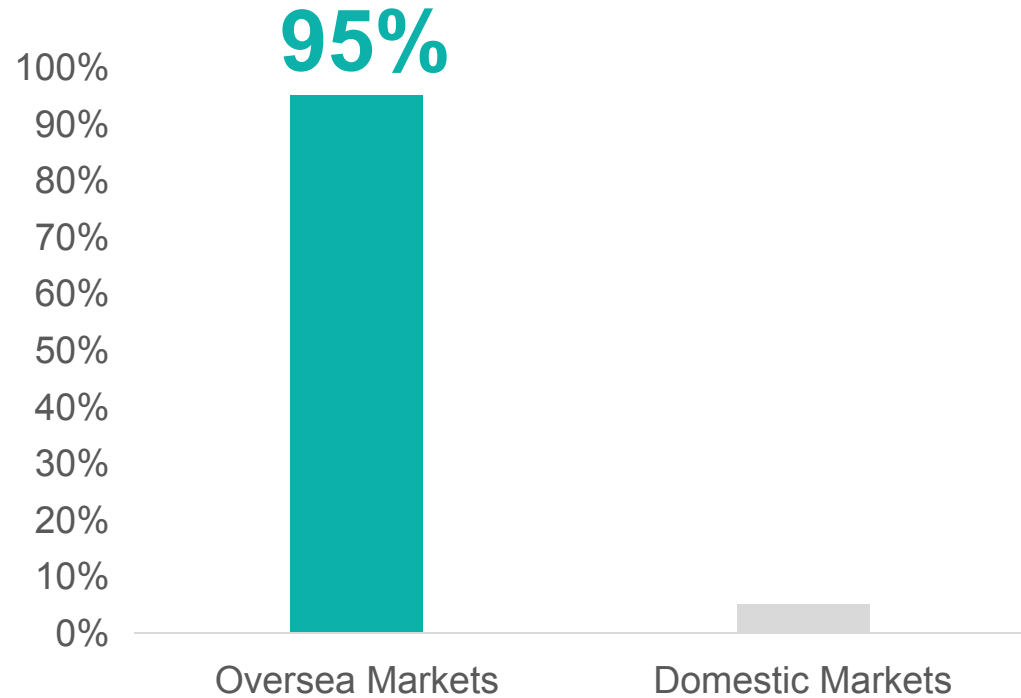


Milestone

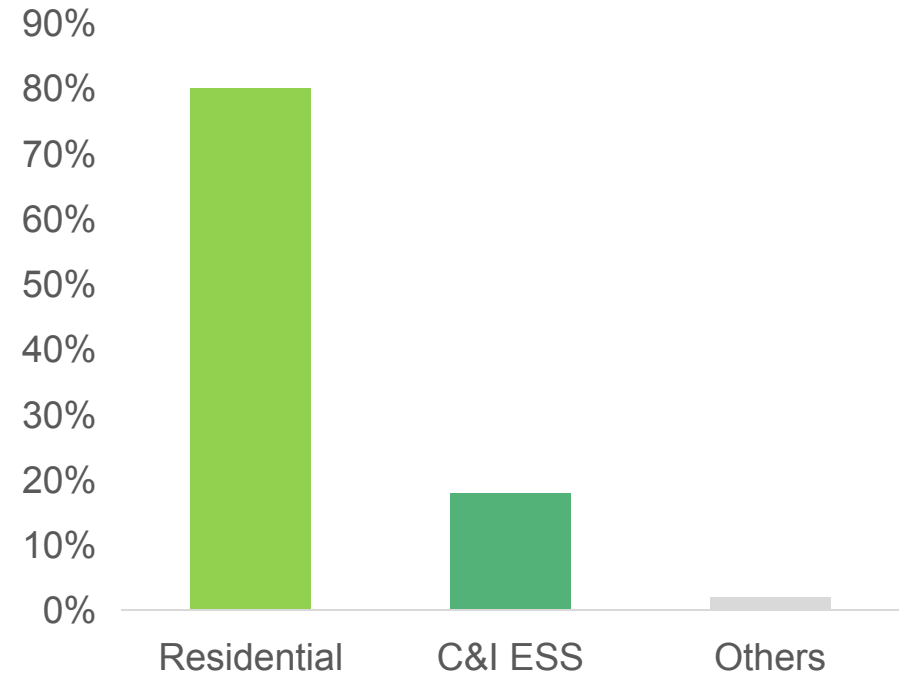


Business Structure

Sales Volume in Market



Applications in Market



Market Growth

Europe

North America

Asia

1,000,000+

Residential ESS Globally Served

Africa

80+countries

Global Deliveries

Pacific

Latin America



PYLONTECH GLOBAL



Global Service Center

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

Products

Low Voltage



12V

Back Up

Amber Rock /Mini Amber

473Wh
Camping/Caravan

RV/PY12100

1.2kWh
Caravan/track/Marine etc.



24V

Residential BESS

UP Series

2.8kWh
Lead acid battery replacement
Light RESS



48V

Residential BESS

US Series

2.4, 3.5, 4.8kWh / 19" rack mount

Force-L Series

3.5kWh / IP55 / stackable mount

Pelio

5.1kWh / IP65 / stand-alone



48V

Telecom

BP Series

2.4, 4.8kWh / 19" rack mount



Certifications

IEC62619

IEC63056

CE

VDE2510-50

UL1973

UL9540A

UKCA

JET/JIS

Products

High Voltage



400V

Residential BESS

Force-H Series

3.5kWh / IP55 / Stackable mount

Powercube-X Series

2.4, 3.5kWh / 19" rack mount



1000V

Light Commercial

Powercube-H series

2.4, 3.5kWh / 19" rack mount
Light Commercial

Powercube M1C / M2

108kWh/rack
Up to 32 racks per system
Up to 1C-rate for daily cycle application



1500V

C&I ESS

Powercube-M3 series

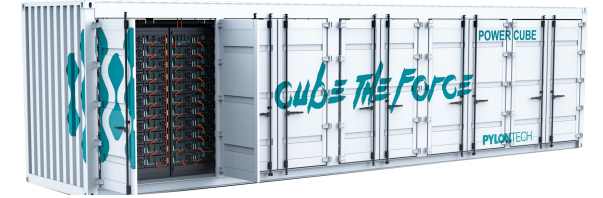
182kWh/rack
Up to 32 racks per system
0.5C ~ 1C continuous operation

Optim US

60~240kW / 100~400kWh
All-in-one ESS solution
PCS, BESS, EMS, HVAC,
FSS pre-mount

LiPower-U100-400

5.7kWh / 19" rack mount
3.6C discharge
Data Center

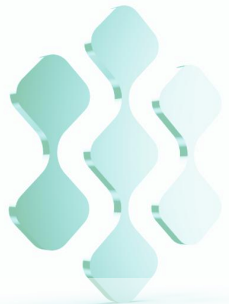


1000~1500V

Grid Storage

Powercube-20H/40H

Up to 3.3MWH per container Utility ESS



Certifications

☑ IEC62619

☑ IEC63056

☑ CE

☑ VDE2510-50

☑ UL1973

☑ UL9540A

☑ UKCA

☑ JET/JIS

PYLONTECH Portable Series Amber Rock- AR500/2000



MA500



AR500



AR2000



Enjoy the Funny of
Outdoor DIY Activity

Max. power: 500W





Amber Rock- AR500

Boosting more power
with Extendable Battery Pack



Amber Rock
473Wh



Mini Amber
473Wh



Amber Rock/Mini Amber
946Wh



Max. 60W
for phone charge

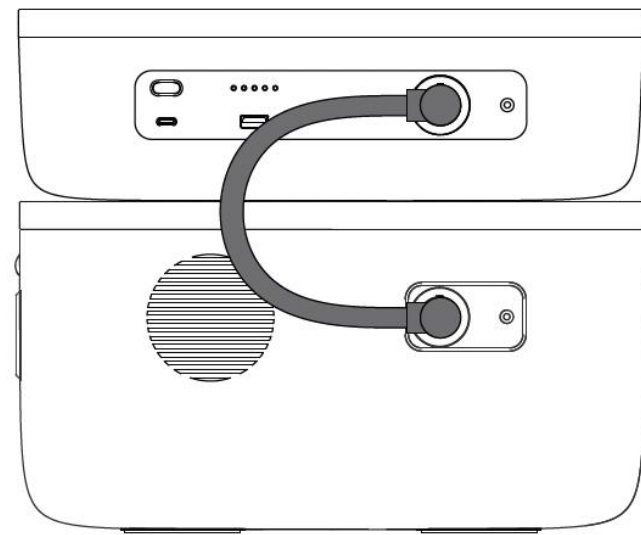
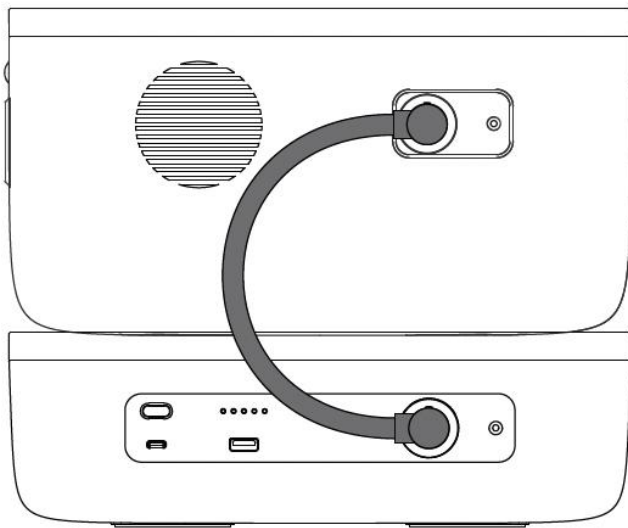


Max. 100W
for laptop charge



2.0/3.0
Fast Charging port

Amber Rock- Capacity Expansion



Specification

Amber Rock Plus



Mini Amber



Nominal Capacity:	473Wh	473Wh
Cell Material:	lithium Ion Phosphate (LFP)	LFP Lithium Ion(LFP)
Size :	303*198*161	303*198*108
Weight:	6.4kg	3.2kg
Working temperature:	0~40 °C	0~40 °C
Output:	2 AC 1 USB-A Port 1 Type-C Port 1 Cigar Lighter 2 DC jack	1 USB-A Port 1 Type-C Port
Input:	9hrs full charged-Standard Charger 2hrs full charged-Optional Charger	

- ◆ **PYLONTECH Portable Series**
Amber Rock- AR2000 Coming soon

POWER
WITH
FREEDOM



PYLONTECH 12V Battery Series

RV/RT Series



BASIC PARAMETERS	RV12100CH	RV12200	RT12100	RT2450
Nominal Voltage (v)	12.8	12.8	12.8	25.6
Nominal Capacity (kWh)	1.28	2.56	1.28	1.28
C-rate	1.0	0.5	1.0	1.0
Heating Film	√	√	√	×
Bluetooth APP	×	√	√	√
Charge / Discharge Current (A)	100	100	100	50
Depth of Discharge (DoD)	100%	100%	100%	100%
Communication	-	Wireless Optional	CAN/RS485	Wireless Optional
Scalability*	16P	4S 4P 16pcs max.	4S 4P 16pcs max.	2S 8P 16pcs max.
Working Temperature / °C	-20~50	-20~50	-40~60	0-50(Charge) -20-50(Discharge)
Cycle Life**	> 4500	>4000	> 4500	>4000
Reference to standards	UN38.3	UN38.3, TELEC, FCC, CE	SAE J930, SAE J1455, Telec, Bluetooth SIG, UL1973, IEC62619, FCC, CE, UN38.3	UN38.3, TELEC, FCC, Bluetooth SIG
IP Rating	IP20	IP65	IP67	IP67

PYLONTECH Residential Battery

High Compatibility



GOODWE



SUNGROW



SCAN TO CHECK
FULL COMPATIBLE LIST



PYLONTECH Residential Battery Rack Mounted 48V -US Series



Model US2000C US3000C US5000




Basic Parameters				
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(mm)	442*410*89	442*410*132	442*420*161	
Weight (kg)	22.5	32	39.7	
	(Recommend)	25	37	80*
Charge/ Discharge Current(A)	(Max. Continuous)	25	37	100*
	(Peak 1)	50~89@60sec	74~89@60sec	101~120@15min
	(Peak 2)	90~200@15sec	90~200@15sec	121~200@15sec
Communication Port	RS485,CAN			
Single string quantity(pcs)	16	16	16	
Working Temperature/ C	Charge	0~50		
Working Temperature/ C	Discharge	-10~50		
Shelf Temperature/ C	-20~60			
Short current/duration time	<4000A/2ms	<4000A/2ms	<2000A/1ms	
IP rating	IP20			
Cooling type	Natural			
Humidity	5% ~ 95%(RH) No Condensation			
Altitude(M)	<4000			
Design life	15+ Years (25°C/77°F)	15+ Years (25°C/77°F)	15+ Years (25°C/77°F)	
Cycle Life	>8,000 25°C	>8,000 25°C	>8,000 25°C	
Certification	UL1642/ IEC62619 /ICE63056 /ICE61000-6-2/3 UN38.3	UL 1973 /UL1642 /UL9540A/VDE2510-50 /IEC63056/IEC62619 /IEC62040/IEC62477-1 /ICE61000-6-2/UN38.3	UL 1973/UL9540A IEC62619/IEC63056 /ICE61000-6-2/3 /UN38.3	



Pylontech

New BESS solution

 **48V100Ah**

-  Dual active protection
-  High current strike endurance
-  Remote upgrade feature



◆ Ensure Safety and Quality



Lithium iron phosphate (LFP)

More than 10yrs of dedicated experience on lithium battery raw materials R&D for battery storage application only



1,000,000+ Installation Experience Globally

over 1 million units have been delivered and installed in 80+ countries since 2013



Vertical industrial chain from cells to battery system integration with own BMS

ESS-driven R&D and production in terms of performance stability and long life span from cell to battery systems integration.



Extraordinary powerful performance



80A(0.8C) Continuous charge/discharge power

Peak power : 101~120A @ 15 Mins and 121~200A @15Sec;
3.2 times powerful than US2000 (25A)



Four Levels of current protection

Charging/Discharging MOS, dual-passive&active fuse, Pre-charge circuit , DC Brekaer to enhance the system safety



Smoother power supply:

Enable 50% more power during critical temperature condition



Flexible and easy installation



Flexible DIY installation methods

With standard 19inch bracket/rack/cabinet



Unlimited on the capacity expansion

Up to 16 units per COM string. If work with LV-HUB could maximum have 480 units in one single system.



Robust installation environment

-10°C ~ 50°C working temperature range, up to 4000M altitude.



● PYLONTECH NEW GENERATION RESIDENTIAL BATTERY -LV

Pelio - L

Scalability 5kWh~100kWh

5 kWh

PER MODULE

95 %

DoD

1C Continues

CHARGE/DISCHARGE

100 kWh

MAXIMUM CAPACITY

8000+

Cycle life

UL9540A

Certification



Smaller Footprint

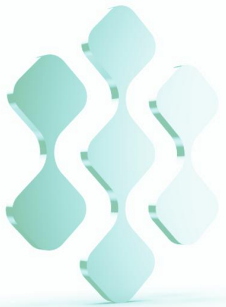
0.1m² for 20kWh

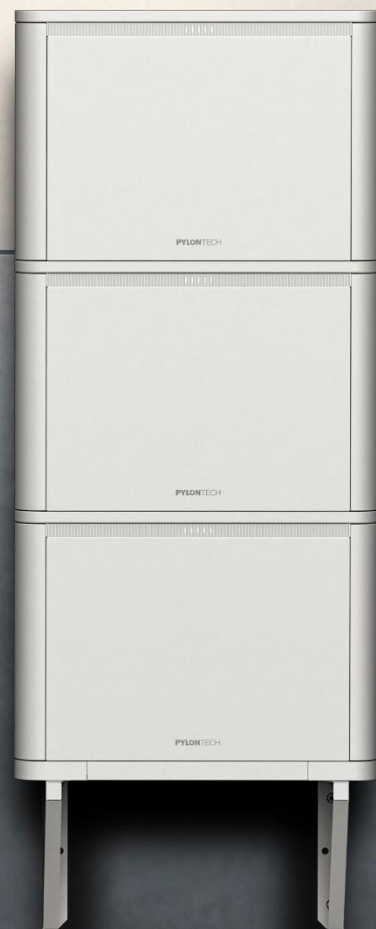
Minimalist design



High Power Efficiency

5kW continuous per single
unit maximizes your RoI







● PYLONTECH NEW GENERATION RESIDENTIAL BATTERY -HV

Force H3

Scalability 10kWh~210kWh

5 kWh

PER MODULE

100 %

DoD

1C Continues

CHARGE/DISCHARGE

210 kWh

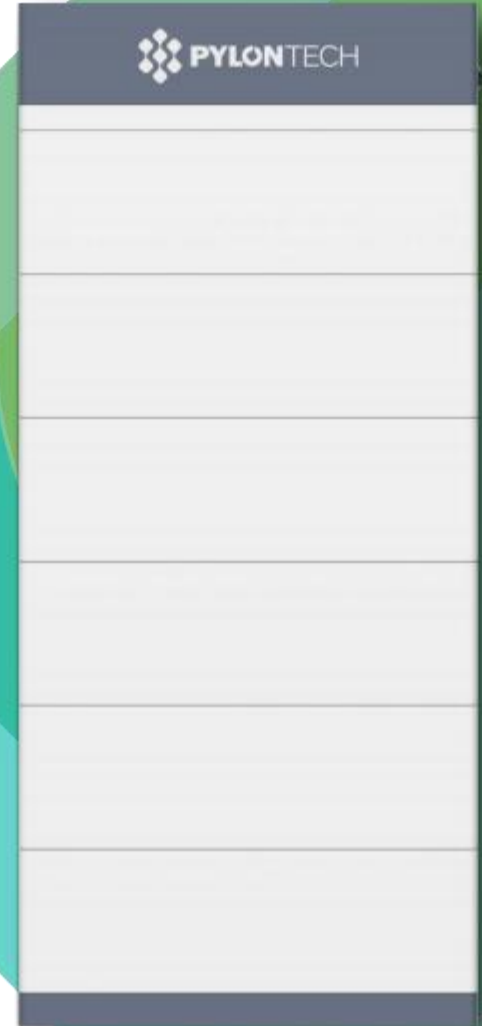
MAXIMUM CAPACITY

8000+

Cycle life

UL9540A

Certification



◆ ESAY INSTALLATION



Easy to handle

Light on Weight
39kg per module



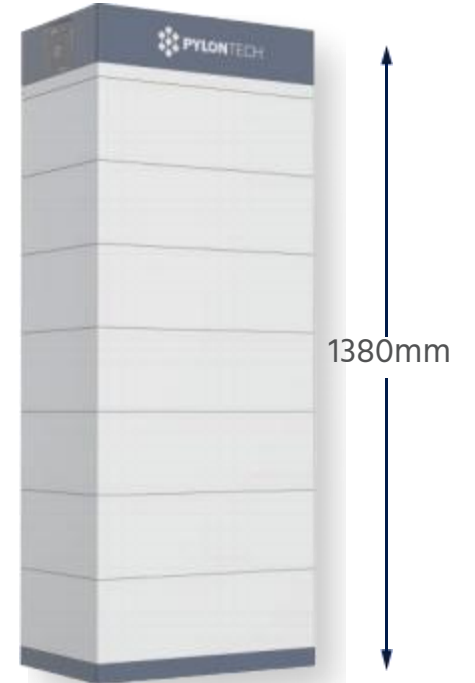
10kWh System

Outdoor Installation
IP55 & Small Footprint



20kWh System

Use Friendly
Plug & Play
High Voltage System



35kWh System

Easy Installation
Stackable & Fool-proof

◆ PYLONTECH NEW GENERATION C&I BESS SOLUTION

Optim-US-M1C/M5

High Integration

Include Battery, BMS, HVAC,
FFS and PCS(optional)

Pre-Engineered System

Easy for on-site installation and
reduces the cost of storage

Safe and Reliable

Self-developed battery and
BMS with UL-Certified system

Flexible and Scalable

Ultra strong Inverter compatibility
with Capacity Expansion ability

Recommended capacity:

M1C BESS: 100kW/100kWh

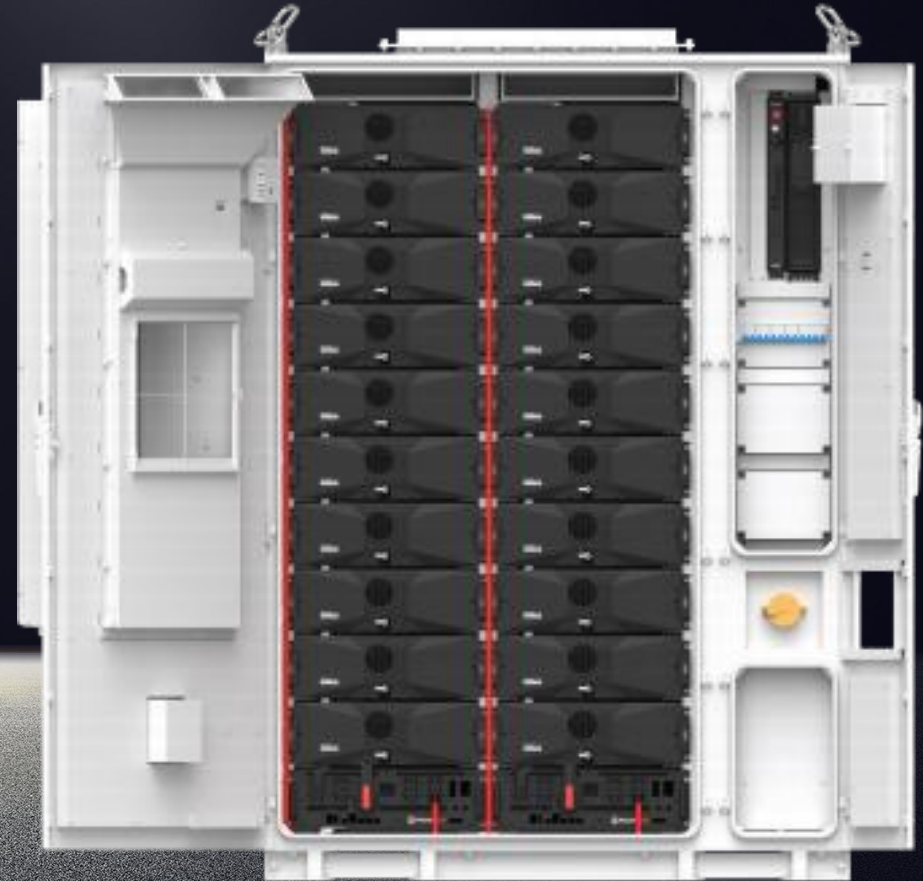
M5 BESS: 100kW/316kWh



Optim-US Outdoor BESS



M1C-100KWH BESS



M5 - 313KWH BESS

◆ PYLONTECH NEW GENERATION C&I CONTAINERIZED BESS SOLUTION

M5-10FT/20FT Container BESS

High Integration

Include Battery, BMS, HVAC, FFS and PCS(optional)

Safe and Reliable

Self-developed battery and BMS with UL-Certified system

Pre-Engineered System

Easy for on-site installation and reduces the cost of storage

Flexible and Scalable

Ultra strong Inverter compatibility with Capacity Expansion ability

Recommended capacity:

M5-10FT BESS: 500kW/1MWh

M5-20FT BESS: 1MW/2MWh

M5-20FT BESS: 2.96MWh, DC Battery only



M5-10FT/20FT Container BESS

→ M5 Container design
Footprint Reduce 30%+ ←

DC Confluence
Cabinet

Fire
Suppression
System

Battery System
Pylontech original
manufacturing

HVAC

↑
Outsider Maintainable



MORE APPLICATIONS

Renewable Energy Optimization

Grid-tied solar energy
Grid-tied wind energy

Energy Shifting

Residential ESS
Hybrid EV charger station
DG+BESS

Grid Service

Regulation/Shifting
Frequency Response

Lead Acid battery replacement

12V Lead acid battery replacement
High C rate application

UPS

Data center

Distributed energy resource

Micro-grid application
V2G



BESS



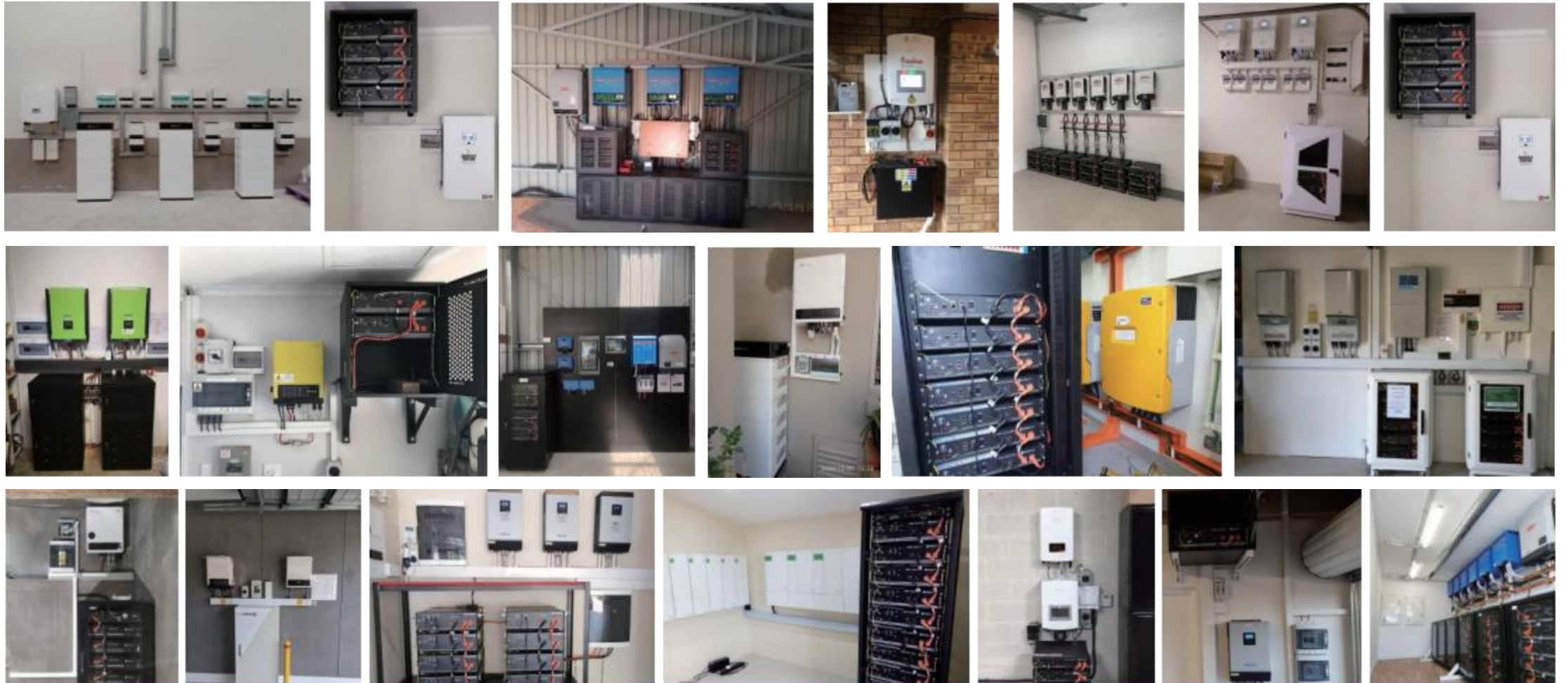
10+
Years

**DEDICATION TO
ENERGY STORAGE**



◆ RELIABILITY IS PROVEN

1,000,000+ ESS delivered globally from 2013



◆ RELIABILITY IS PROVEN



Peak Shaving

Location: Mexico

Capacity: 5MW/10MWh

Date: 2023

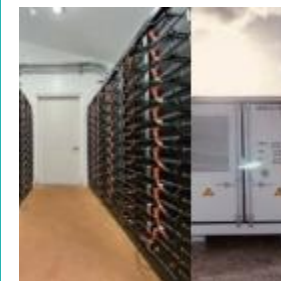


Micro-Grid

Location: Europe

Capacity: 1MW/1.5MWh

Date: 2021



Grid-Tied StandAlone

Location: America

Capacity: 1MW/2MWh

Date: 2019



Self-Consumption

Location: Asia

Capacity: 3.2MW/7MWh

Date: 2022



Self-Consumption

Location: Asia

Capacity: 1MW/2MWh

Date: 2020



Grid-Tied StandAlone

Location: Europe

Capacity: 1MW/2MWh

Date: 2022



Location: Europe

Capacity: 1MW/2MWh

Date: 2022



Off-Grid

Location: Asia

Capacity: 1.2MW/2.6MWh

Date: 2019



Micro-Grid

Location: Africa

Capacity: 0.5MW/1.5MWh

Date: 2019



THANKS

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