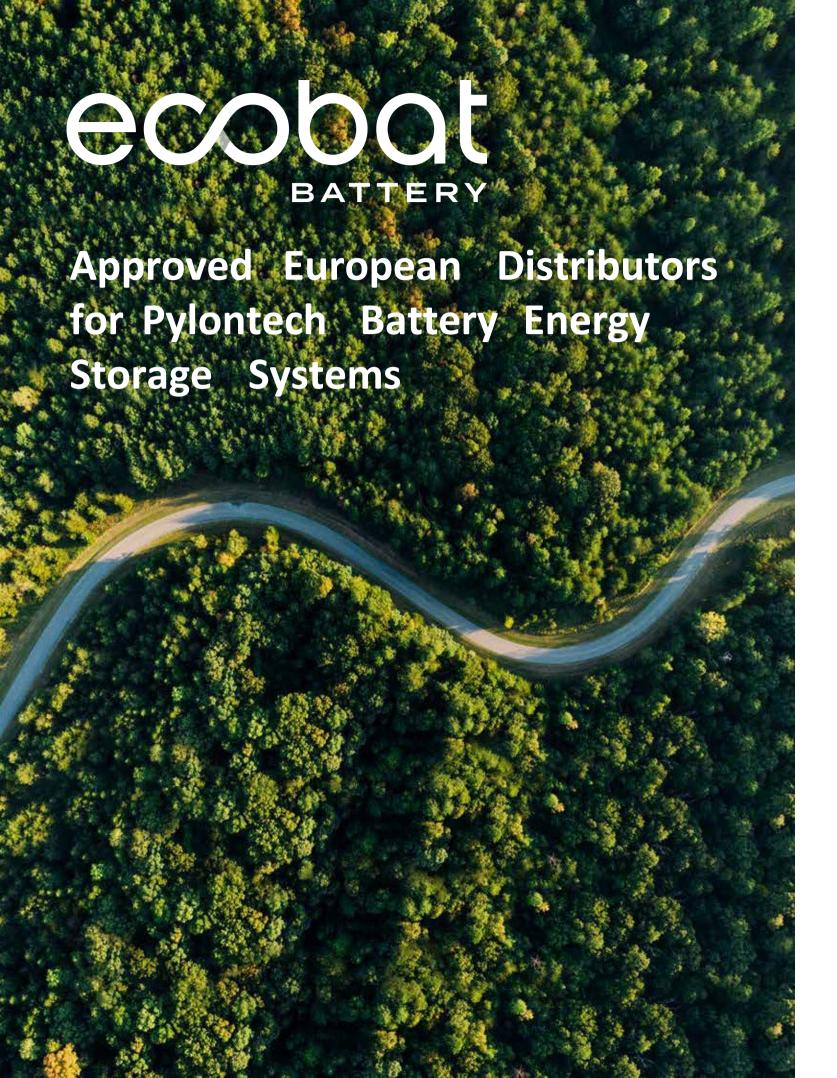
ecobot BATTERY



Battery Energy Storage Systems



PYLONTECH

Product Portfolio

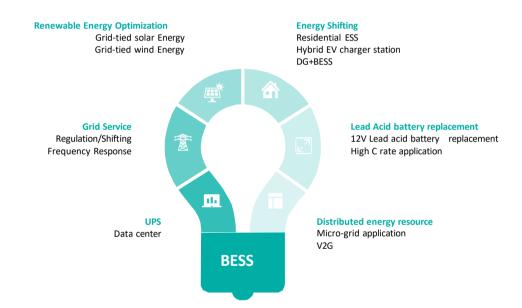
03.12V Series - All Purpose Lithium Ion Battery

04. Residential - Battery Energy Storage Systems (BESS)

09. Utility ESS

11. Ecobat Lithium Services

Main Applications



Core Strengths



More than 10 years technology accumulation for reliable BESS



500,000+Global Residential ESS



The safety and stability of battery has been protected by our own cells, modules and BMS



TOP 2Global residential ESS Supplier



All R&D, manufacturing, supplying and marketing are long-life-cycles driven.



4.5GWH+ ESS Battery Delivered



Flexible modularization and rack solution for various demands.



Flexible battery solutions 12V~1500V battery



12V Series

All Purpose

Lithium Ion

Battery

Intelligent Battery Management System







Temperature Protection Over-Voltage Protection Over-Current Protection

ditt

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Heating Film Parallel & Serial Balancing Strategy Short-circuit Protection

KEY FEATURES

Ultra-Safety

The battery management system (BMS) provides comprehensive protection to the battery and manages the charging/discharging process wisely.

Auto-Balance

Connects multiple batteries in parallel safely without internal state non-uniformity issues.

Uncompromising Quality

State-of-the-art battery cells ensure a lifespan of more than 6000 cycles, 100A continuous discharge current, and a wide range of operation temperature.

Communication

CAN, RS485, Blue Tooth, Dry Contact enable data transmission to meet the needs of different usage scenarios.

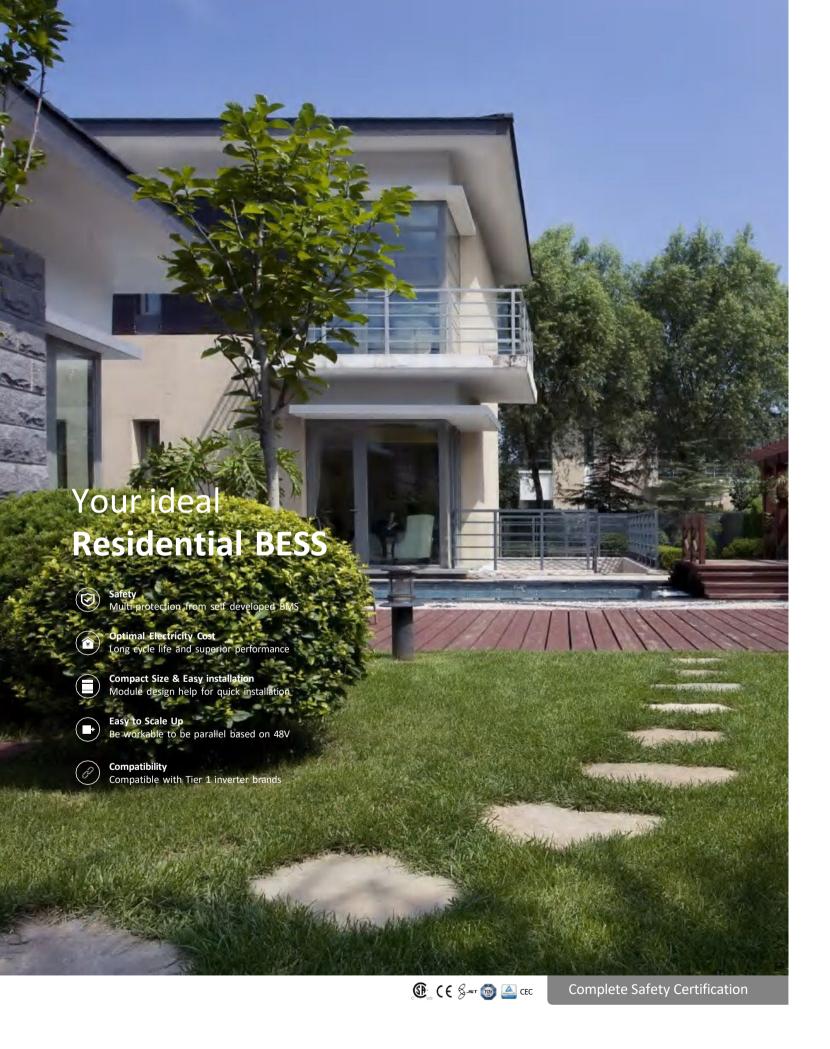


SPECIFICATION (12V)

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Electrical			
Nominal Voltage(V)	12.8		
Nominal Capacity(Ah)	100		
Working Voltage Range(VDC)	10.8~14.4		
Internal Resistance(m)	<20		
Charge Voltage(VDC)	14V-14.4		
Nominal Operation Current(A)	50		
Max. continuous operation current(A)	100		
Peak Current(A)	200@30sec		
Serial Connection	≤4 pcs		
Parallel Connection	≤4 pcs		
Structure			
Dimension (mm)	325*173.5*226		
Weight(Kg)	13±0.2		
IP rating	IP67		
Power Terminal	M8 bolt		
Working Environment			
Charge working temperature (°C)	0~60		
Discharge working temperature (°C)	-20 ~ 60		
Working temperature (°C)	-40 ~ 60*		
Altitude (M)	<4,000		
Humidity(RH)	5~95%(w/o condensing)		
Communication			
RS485	115200bps		
CAN	500Kbps		
Bluetooth	BLE5.0		
Dry contactor	2×inputs & 2×outputs		

^{*}During -40 °C $^{\sim}$ -20 °C, only heater will be enabled for heating up the module, battery cannot charge/ discharge during such period.





Product Lineup

48 V	
Cabinet/rack installation	Quick connector
US2000C (2.4 kWh)	Force L1 (7.1~24.86 kWh)
Phantom-S(2.4 kWh)	Force L2 (7.1~14.2 kWh)
US3000C (3.55 kWh)	
US5000 (4.8 kWh)	

SPECIFICATION (48V)

Model	US2000C	US3000C	US5000
Basic Parameters			
Nominal Voltage (Vdc)	48	48	48
Nominal Capacity(Wh)	2400	3552	4800
Usable Capacity(Wh)	2280	3374	4560
Dimension(mm)	442*410*89	442*420*132	442*420*161
Weight(kg)	24	32	39.5
(Recommend) Charge/	25	37	75
Discharge (Max) Current(A)	89@1min	89@601min	120@15min
(Peak)	200@15sec	200@15sec	200@15sec
Communication Port		RS485, CAN	
Single string quantity(pcs)	16	16	16
Working Temperature/ °C		0~50	
Shelf Temperature/ °C		-20~60	
Cycle Life	>6000, 25°C	>6000, 25°C	>6000, 25°C
Authentication Level	IEC62619/CE UN38.3	VDE2510-50 IEC62619/UL1973 UL9540A/CE/UN38.3	IEC62619/UL1973 /UL9540A/CE /UN38.3

How to save cost from Residential ESS?

Residential BESS

Save costs, save the planet, with our battery storage.

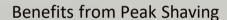
So future generations can enjoy a safe and clean environment





Self-Consumption Optimization

High energy demand in the morning and evening but solar generation is most sufficient during the Mid-Day. Battery Storage system balance the feeding and demands. Realize your grid independence.



House: Load Shifting

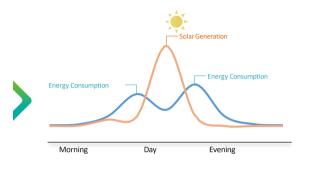
Store the power during low-peak and use the energy at peak-time. Save the money which happens arising from peak rate.

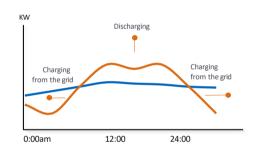
Transmission&Distribution: peak Shaving Save on the electricity bills by reducing peak demand

VPP Revenue

VPP creates a network of renewable energy sources and battery storage systems, connected through a cloud-based technology that manages the stability of clean electricity to maximize your revenue.

Enabling a cost reduction, as well as boosting the system's efficiency



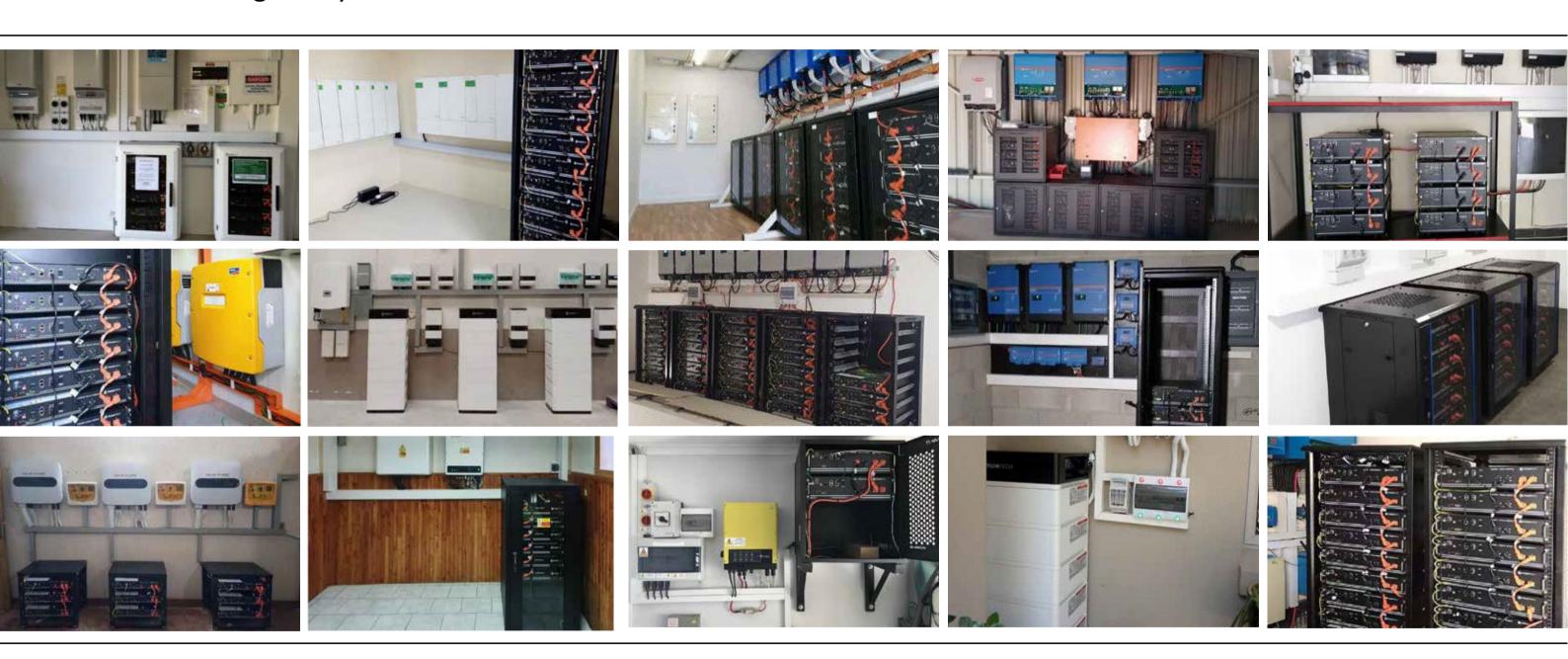




Pylontech has been serving over

500,000+

Residential ESS globally from 2014



OUR RELIABILITY IS PROVEN



SPECIFICATION

Powercube M2 100~1000V



Basic Parameters	Powercube-M2A-180 (729.6V148Ah)	
Battery System Capacity(kWh)	107.98	
Battery Module	HM2A180	
Battery system Voltage(V)	729.6	
Battery System Voltage Range (V)	615.6~820.8	
Efficiency(@0.5C-rate)	96%	
Depth of Discharge	90%	
Dimension (W*D*H mm)	803*845*2130	
Weight(kg)	1228	
Design Life	15+Years	
Operation Temperature (°C)	10~40	
Humidity	5%~95%	
Altitude	<2000	
Battery Module Qty.(Optional)	1~19 pcs	
Authentication level	IEC62619/CE/UN38.3	

Powercube M3 100~1400V



Basic Parameters	Powercube-M3A-100 (729.6V148Ah)	Powercube- M3A-180 (1113.6V148Ah)
Battery Module	HM3A100	HM3A180
Battery System Capacity(kWh)	107.98	164.81
Battery system Voltage(V)	729.6	1113.6
Battery System Voltage Range (V)	615.6~820.8	939.6~1252.8
Efficiency(@0.5C-rate)	96%	96%
Depth of Discharge	90%	90%
Dimension (W*D*H mm)	803*845*2130	1185*845*2130
Weight(kg)	1228	1798
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/CE /UN38.3/UL9540A	IEC62619/VDE2510-50 /CE/UN38.3

SPECIFICATION





Basic Parameter	20ft High Voltage System Container		40ft High Voltage System Container		
Container System Type	Powercube-20H-M1		Powercube	Powercube-40H -M1	
System Charge/Discharge Rate	0.5C		(0.5C	
System Voltage Range(V)	736(690~828)		736(69	736(690~828)	
System Capacity(kWh)	1296		2592		
Container System Type	Powercube-20H-M2		Powercube-40H -M2		
System Charge/Discharge Rate	0.5C	0.5C	0.5C	0.5C	
System Voltage Range(V)	806(680~907)	1228(1036~1382)	806(680~907)	1228(1036~1382)	
System Capacity(kWh)	1432	1454	2983	3273	
Container System Type	Powercube-20H-M3		Powercub	Powercube-40H -M3	
System Charge/Discharge Rate	0.5~1C	0.5~1C	0.5~1C	0.5~1C	
System Voltage Range(V)	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		438*2.896		
Ambient Temperature (°C)	-20~50				
Communication	CANBUS/Modbus TCP/IP				



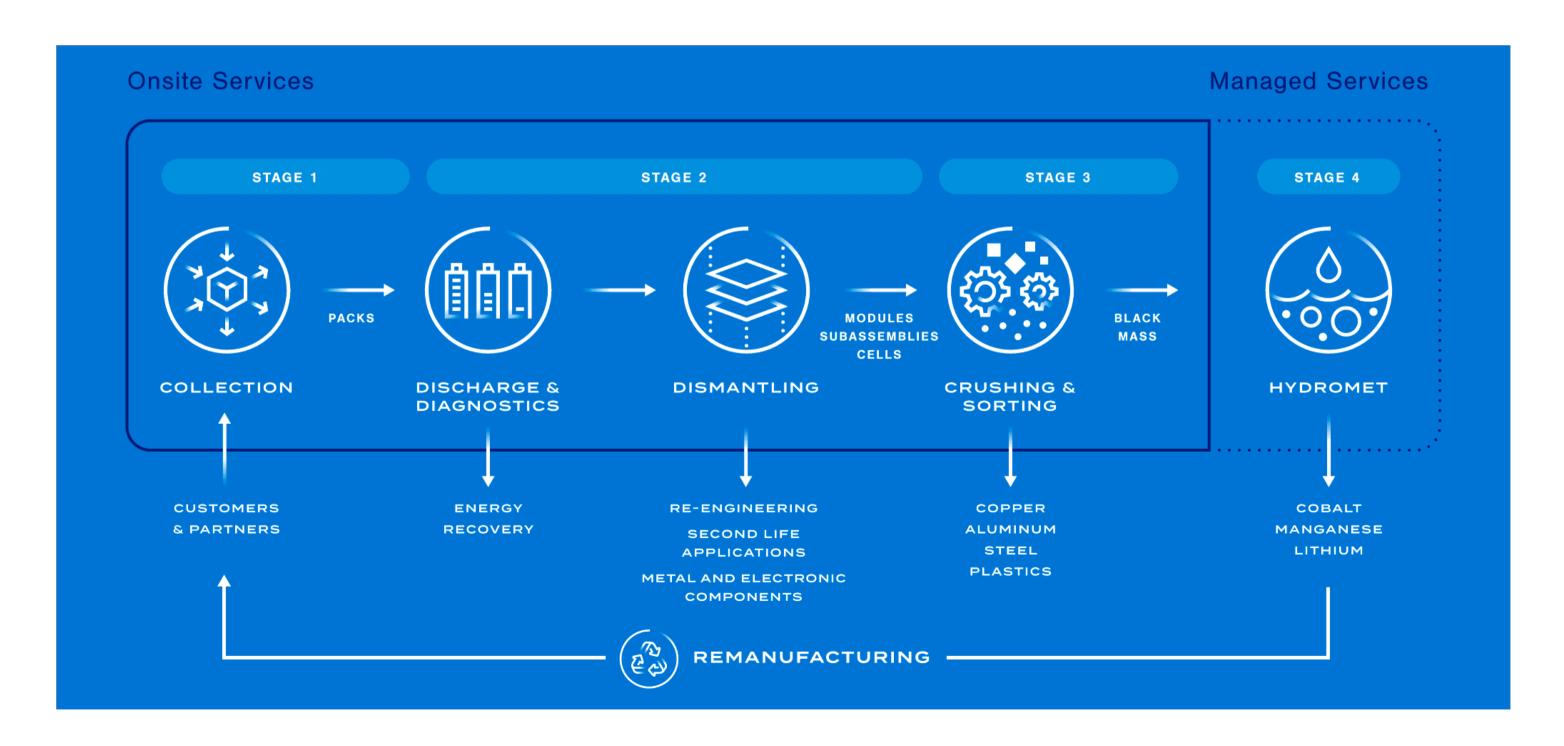


ECOBAT LITHIUM SERVICES

Driving lithium-ion and battery technologies into the future.

In supporting future energy and material lifecycle needs for emerging battery systems, Ecobat Solutions has been highly active in the development of advanced technologies and processes for recycling and resource recovery for Lithium-ion and other battery chemistries. We are the only European provider of fully integrated Stage 1-3 lithium battery recycling services and management services for Stage 4.







ecobatbattery.be