



Introduction to Battery-Max Lite

Commercial Energy Storage







Gene from
BATTERY-BOX FAMILY



Modular Design



Modular Design
BATTERY-MAX LITE





Flexible Size Options

Extendable battery modules

MODULES	CAPACITY
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4	30kWh
6	45kWh
8	60kWh
10	75kWh
12	90kWh



Flexible Size Options

Extendable battery modules

MODULES	CAPACITY
4	30kWh
6	45kWh
8	60kWh
10	75kWh
12	90kWh

Flexible Working Conditions



IP 55 Outdoor Protection



-20~55 °C AC Temperature



Wide Application & Scenarios

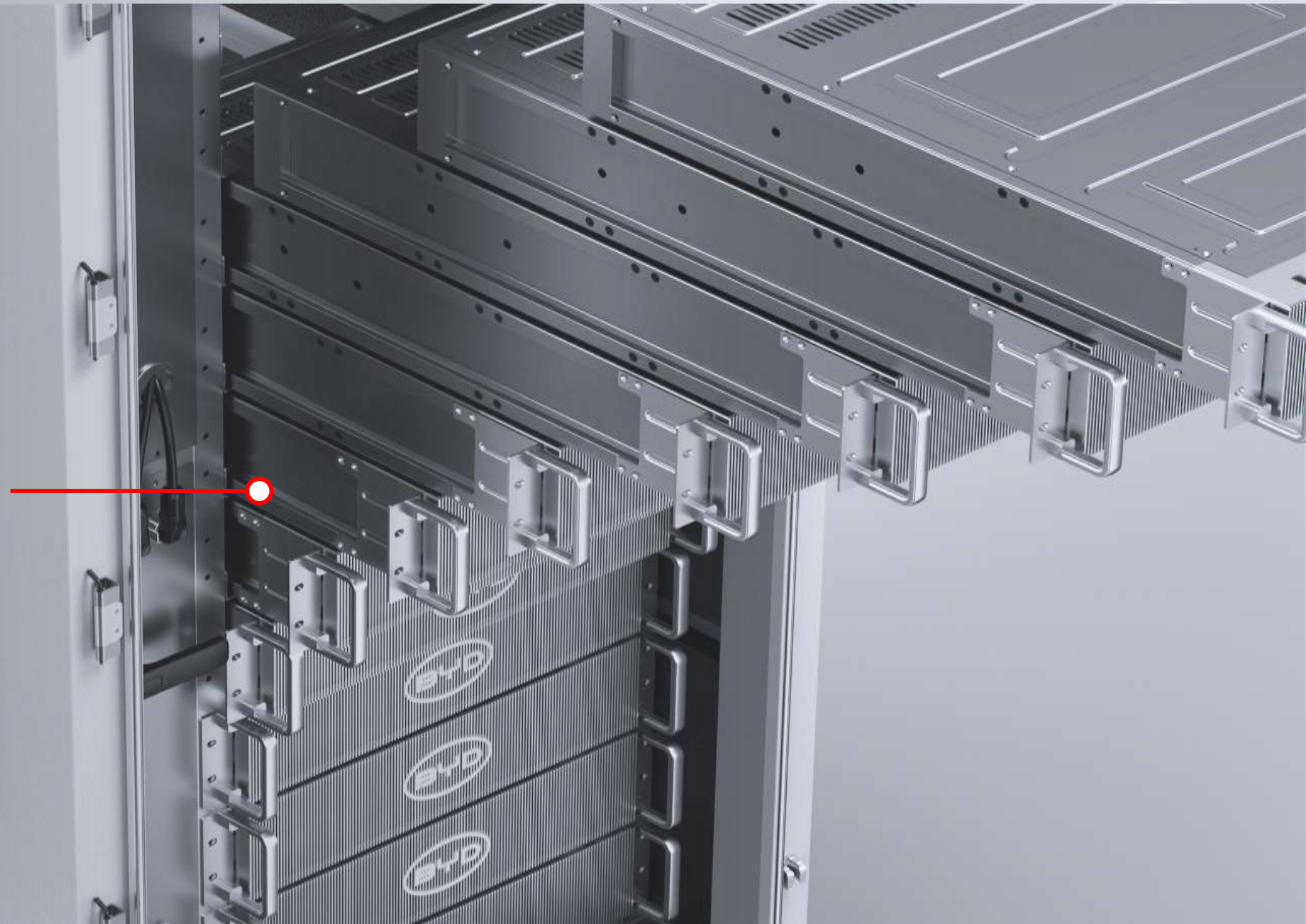
Wide Application & Scenarios



Easy Installation



Plug and Play
Quick modules Insert





ONE FOR ALL

Wide Compatibility for Flexible Inverters

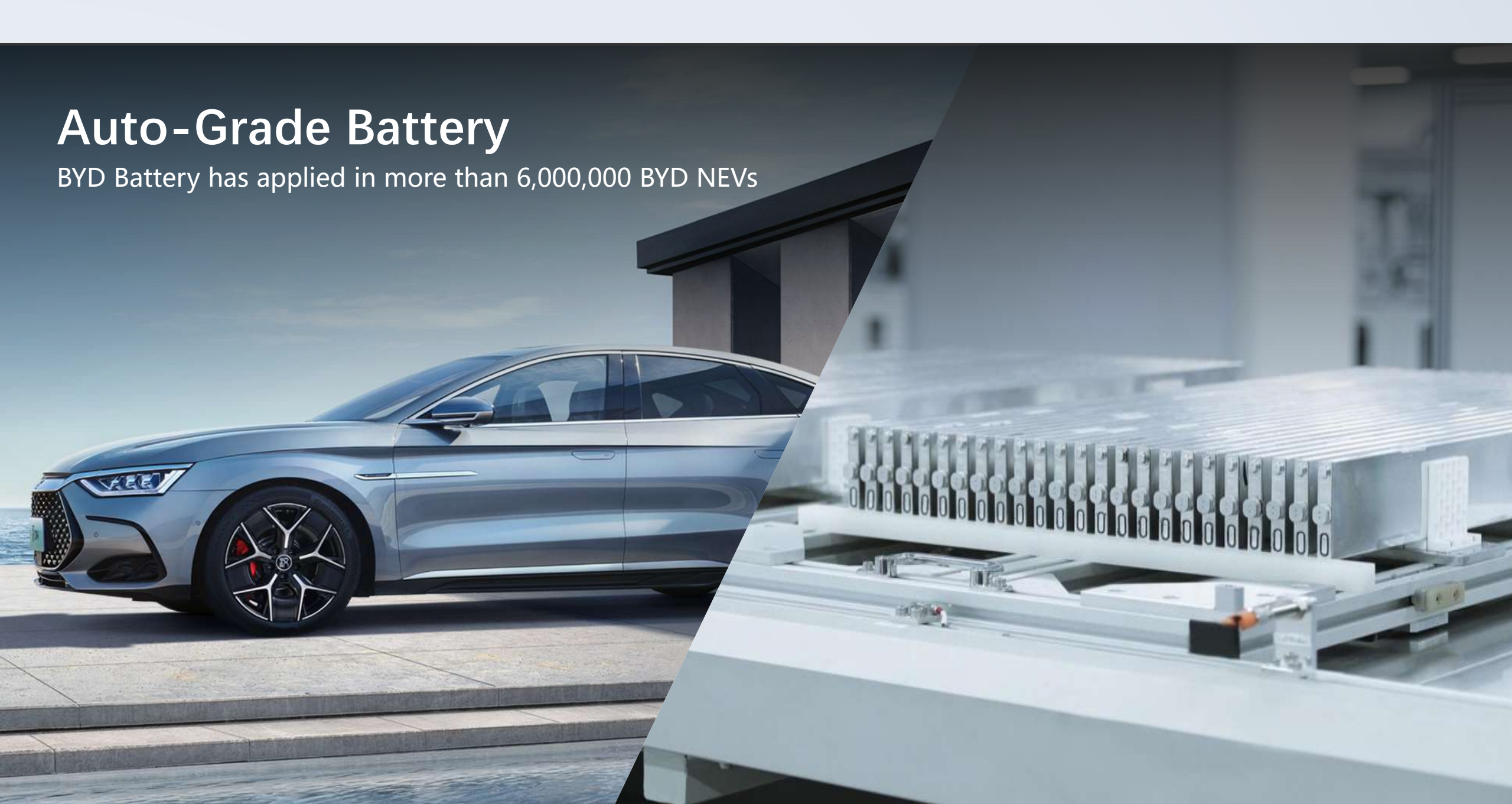
ULTRA-SAFE

The only battery in the world passed
Nail Penetration Test



Auto-Grade Battery

BYD Battery has applied in more than 6,000,000 BYD NEVs





INTELLIGENT PARLLEL MANAGEMENT





INTELLIGENT PARALLEL MANAGEMENT



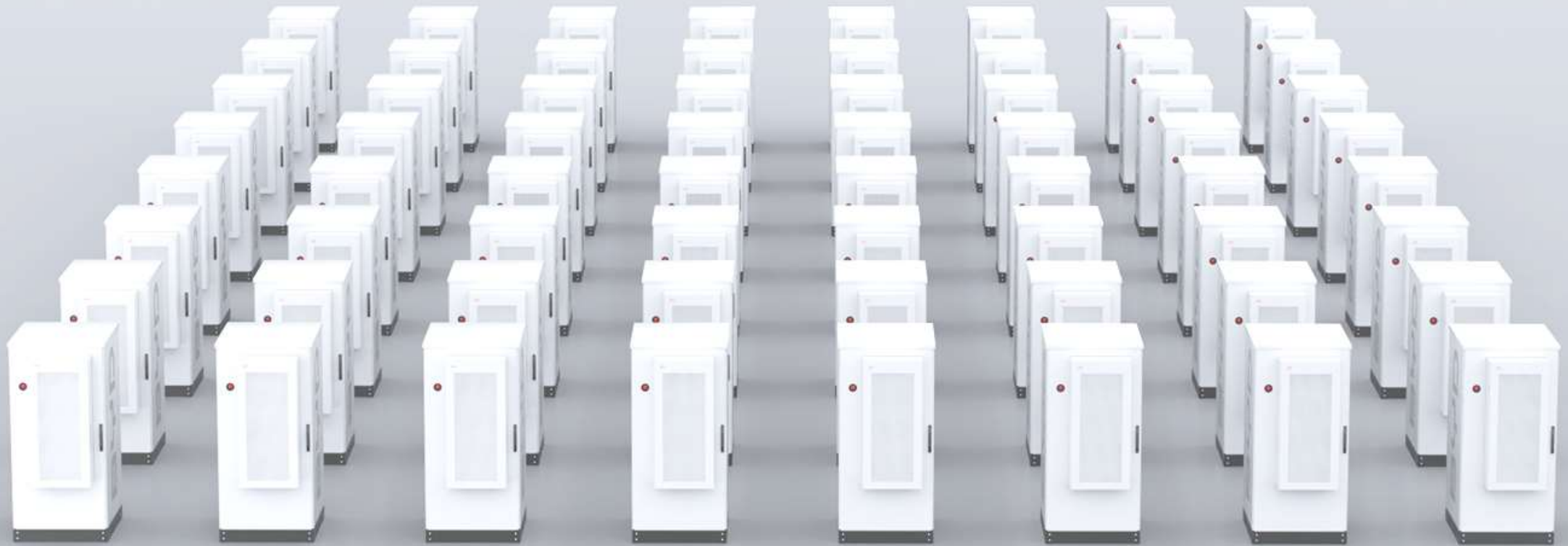
EASY DC PARALLEL

High Scalability up to **X32** system



Easily extend the size up to 2.8 MWh

Flexible capacity for your project

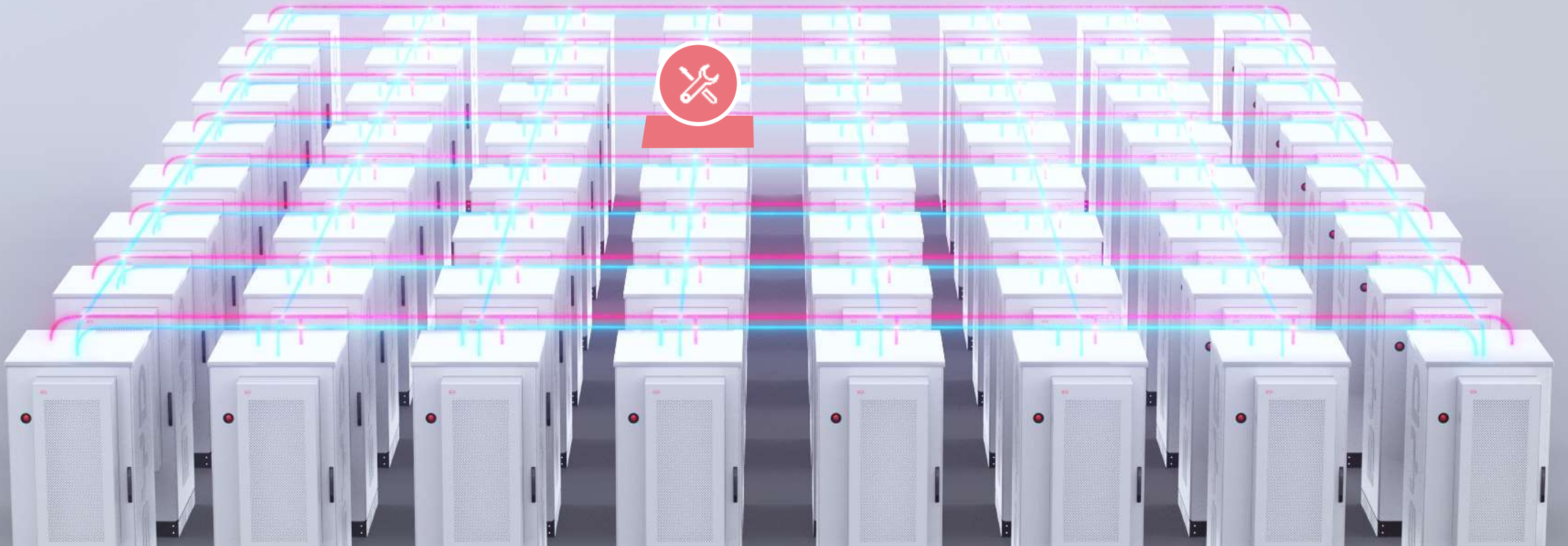


UNINTERRUPTED MAINTENANCE CONTROL



UNINTERRUPTED MAINTENANCE CONTROL

Independent working of every unit, Seamless operation of entire cluster.





BATTERY-BOX FAMILY

**ONE
FOR
ALL**



**FLEXIBLE
SIZE**



**OPEN
INTERFACE**



**INTELLENT
PARALLEL**



**EASY TO
INSTALL**



**SEAMLESS
MAINTENANCE**



**AUTO-GRADE
BATTERY**







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A large, glowing blue number "0" is positioned on the left side of the slide. It has a bright blue and cyan glow around it, giving it a futuristic or high-tech appearance. Below the "0" is a thick horizontal white bar.

0

Introduction

Brief introduction to Battery-Max Lite and its significance in commercial energy storage.

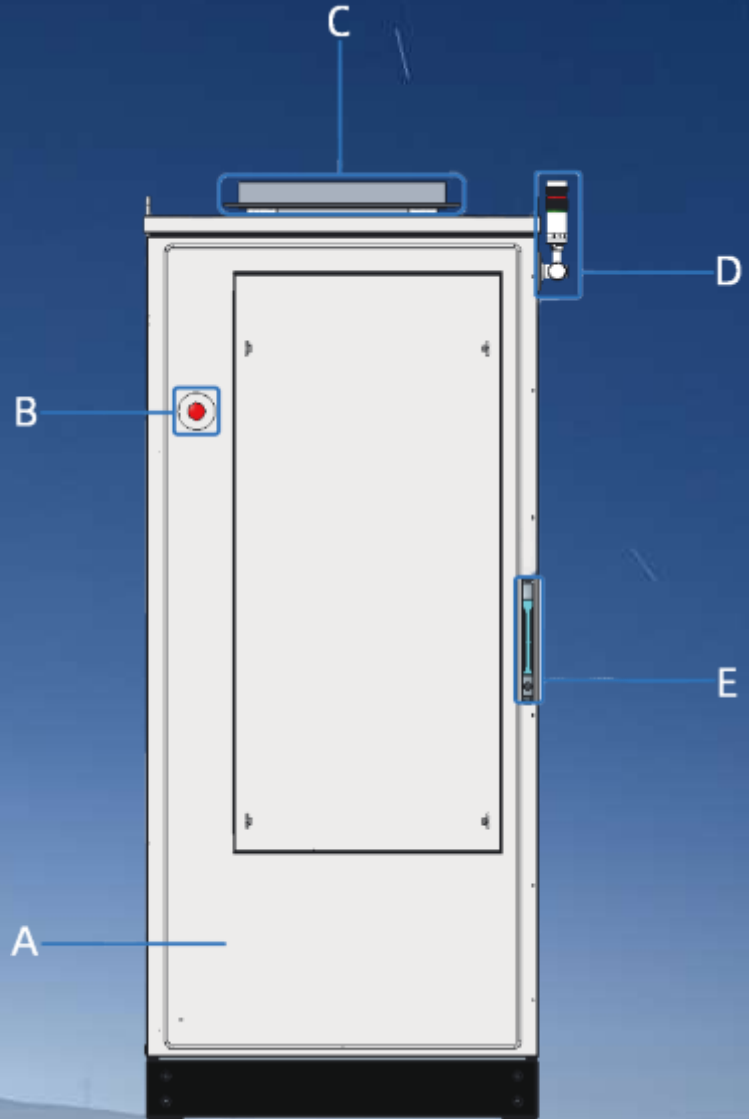


A large, glowing blue sphere with a bright cyan ring of light around its equator. In the center of the sphere is a large, white, 3D-style number "1".

1

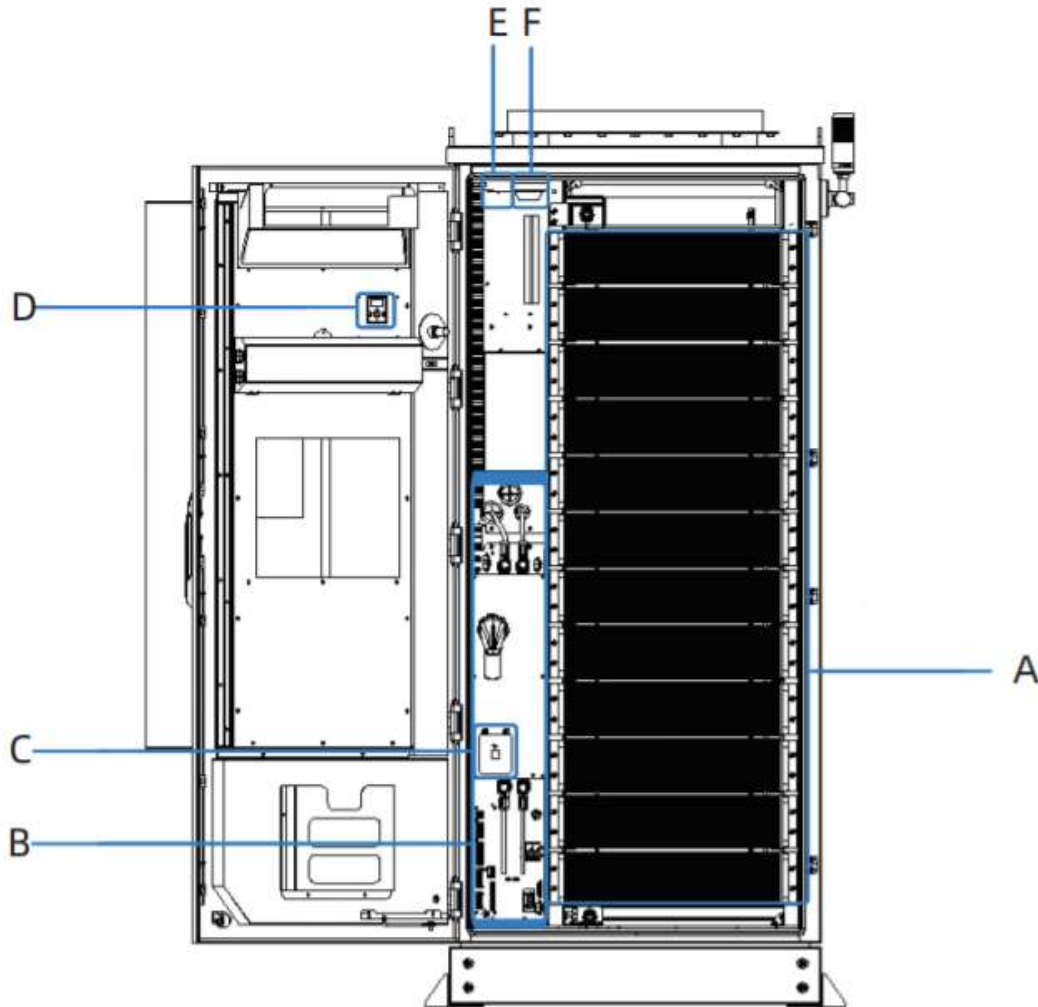
Product Overview

01 Components Layout — Door Closed

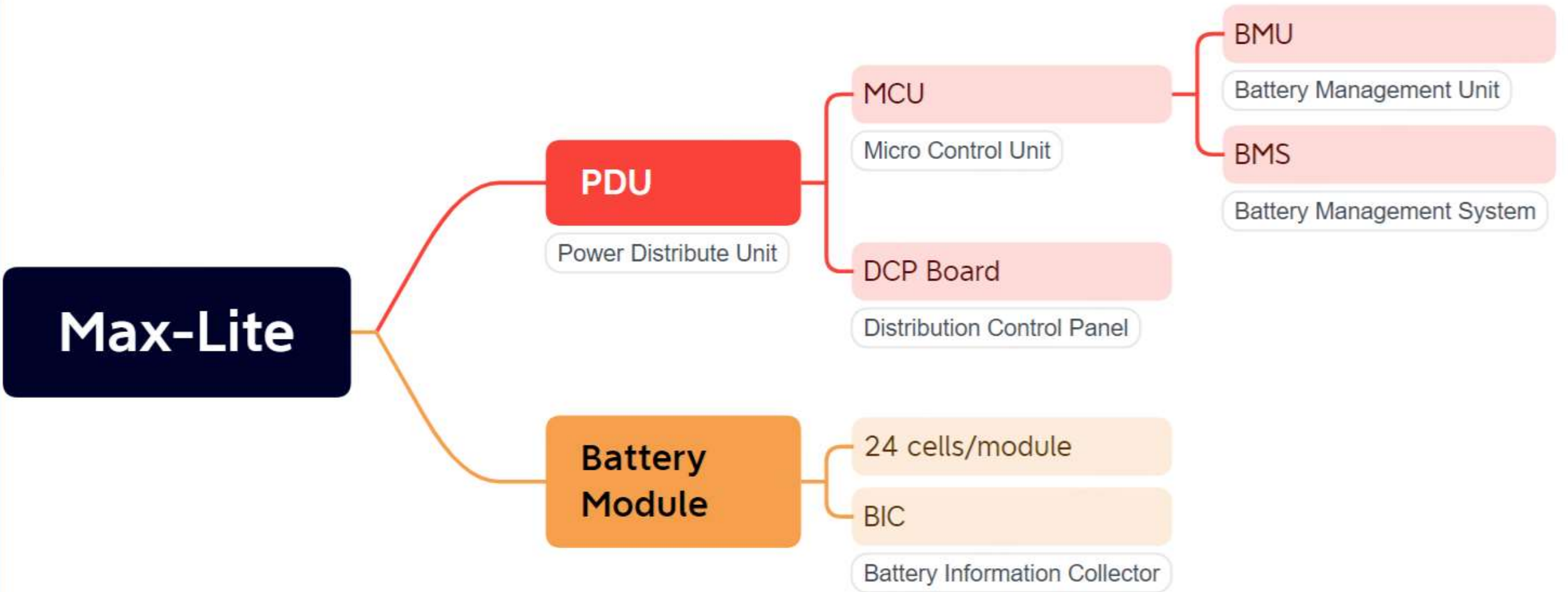


No.	Name
A	Door
B	Emergency stop button
C	Pressure relief window
D	Alarm light
E	Door lock

01 Components Layout — Door Opened



No.	Name
A	Battery module
B	PDU
C	*WiFi module
D	Air conditioner control panel
E	Door status sensor
F	Smoke detector



A large, glowing blue sphere with a bright white number "2" in the center. The sphere has a textured, slightly grainy surface and a bright blue ring of light around its equator.

2

Technical Specifications

02 Technical Specifications



Parameter	Value
Usable Energy	30 ~ 90 kWh
Battery Module	4~12 Modules in series
Max. number of parallel towers	32
Nominal Voltage	307.2~921.6 V
Operating Voltage Range	240~1080 V
Operating temperature	-20~50 °C
Humidity	< 95 % (non-condensing)
Enclosure Protection Rating	IP55
Communication	CAN/RS485 / Modbus TCP
Application	ON Grid / ON Grid + Backup / OFF Grid
System Certification	CE, UN 38.3,IEC 62619, IEC62040
Dimensions(W/D/H)	1000mm * 1500mm * 2220mm
Weight (without battery modules)	≤400 kg
Weight (with battery modules)	≤ 660 ~ 1180 kg

02 Technical Specifications



Parameter	Value
Cell type	LFP (Blade)
Cells Qty	24 Cells in series
Capacity	100 Ah
Usable Energy	7.5 kWh
*Max Cont. Output Current	100 A
Weight	≤65 kg
Nominal Voltage	76.8 V
Operating Voltage	60~91.2 V
Operating Temp.	-10~50 °C
Certification	UN 38.3
Enclosure Protection Rating	IP20
Dimensions(L/W/H)	868.6mm * 615.4mm * 132.0mm



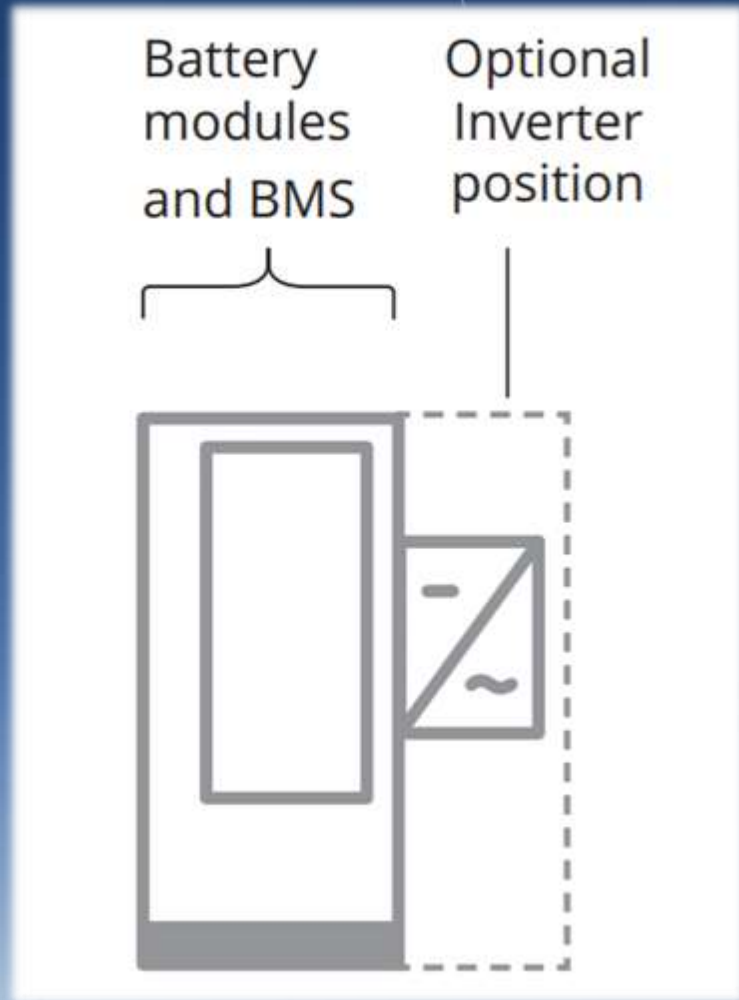
*Maximum continuous charging current and voltage are different at different temperatures.

A large, glowing blue and white number "3" is positioned on the left side of the slide. It has a thick, horizontal bar underneath it. The number is surrounded by a bright, circular, glowing aura with a blue and white gradient, giving it a futuristic or high-tech appearance.

3

Compatible Inverters

03 Compatible Inverters



SMA

Sunny Tripower Storage X 30/50

Solis

S6-EH3P(29.9-50)K-H

Deye

SUNSYNK-50K-SG01HP3-EU-BM4

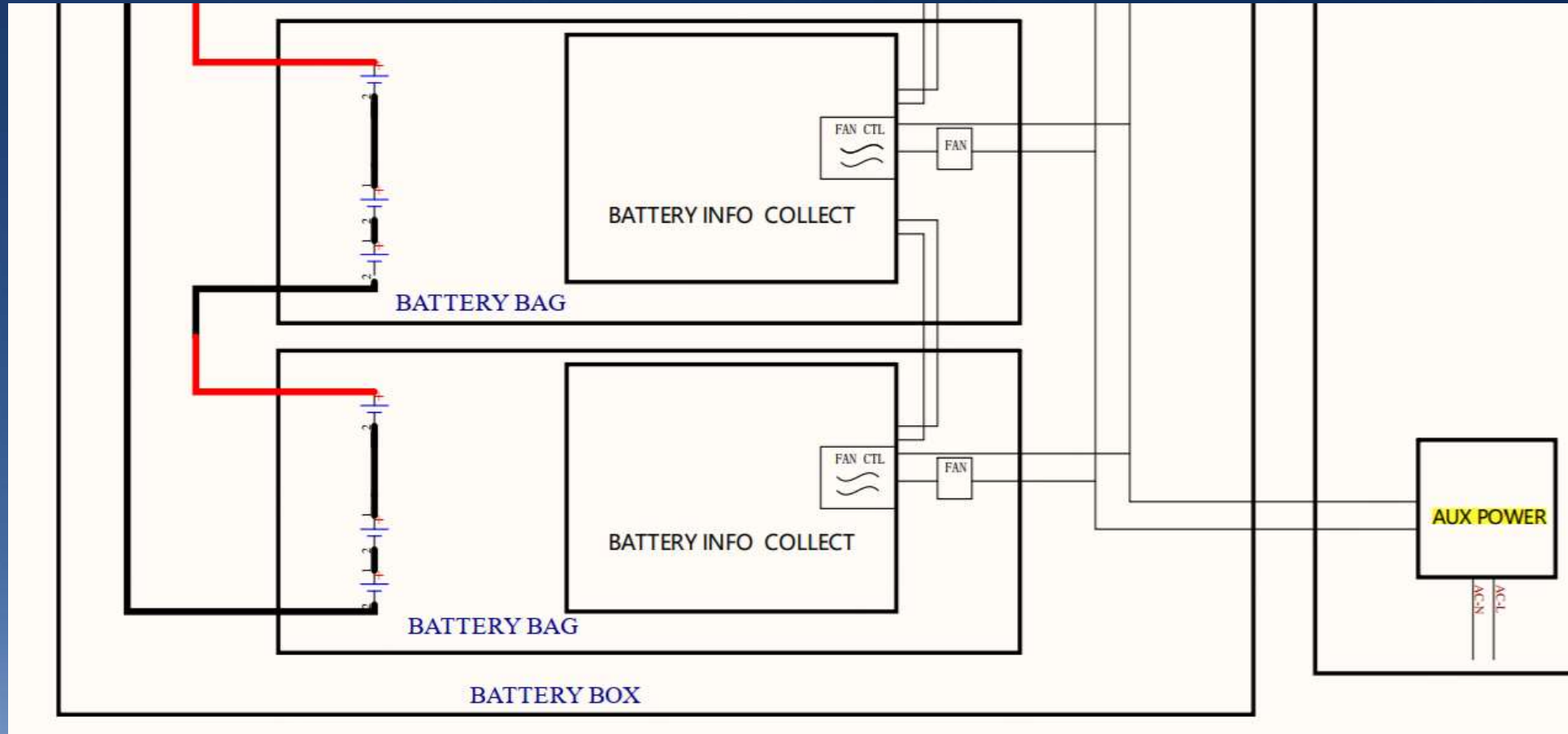
Kaco (Testing in progress)

blueplanet gridsave 92.0 - 137 TL3-S

A large, glowing blue number "4" is positioned on the left side of the slide. The number is rendered in a bold, white, sans-serif font and is surrounded by a vibrant, swirling blue energy field that gives it a dynamic, futuristic appearance. The background of the slide is a dark blue gradient with faint, stylized illustrations of wind turbines and solar panels at the bottom.

Control Strategy Diagram

04 Control Strategy Diagram—Module System



- For single module, mainly contains the battery cell, BIC, and fan.
- The modules are connected in series with each other.
- The fans are connected in parallel with each other and are powered by an external power supply, which is converted from mains to 48V.

04 Control Strategy Diagram—Main Circuit Overview

- Battery -

> > BAT+ > > ISOSW+ > > FUSE > > RELAY+ > > P+ > >

- Inverter -

> > P- > > RELAY- > > SHUNT > > ISOSW- > > BAT-

- Battery -

04 Control Strategy Diagram——External ports and devices

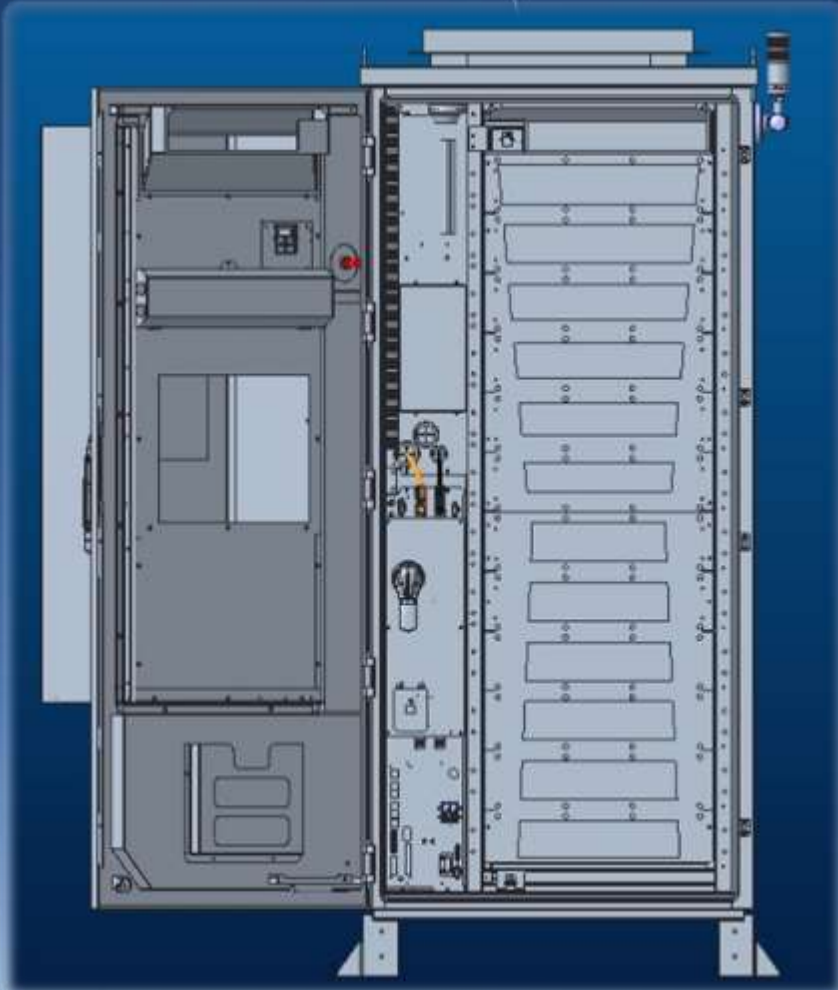
- External Port COM Board
- AIR CODITIONER
- Alert Light
- Emergency Stop Switch
- Travel Switch
- Light
- Smoke detector

A large, glowing blue sphere with a bright cyan ring of light around its equator is positioned on the left side of the slide. Inside the sphere, the number "5" is displayed in a large, white, sans-serif font, with a horizontal white bar underneath it.

5

Extension

05 Extension Options---Modular Design



4~12 Modules
30~90 kWh



05 Extension method



Voltage(X)	SOC(Y)
$X < 75.8$	0-5%
$75.8 \leq X < 77.52$	5-10%
$77.52 \leq X < 78.1$	10-15%
$78.1 \leq X < 78.6$	15-20%
$78.6 \leq X < 79.2$	20-25%
$79.2 \leq X < 79.4$	25-30%

Before adding the new battery module, ensure the SOC of the existing system and the new module are similar.

Measure the new module's voltage (X) and find the corresponding SOC (Y) from the table.

Charge/discharge the existing system until its SOC matches Y.

A large, stylized number "6" is centered on the left side of the slide. It is white with a subtle gradient and is surrounded by a glowing, blue, circular energy field that has a textured, almost liquid appearance. Below the number is a short, thick white horizontal line.

6

Air conditioning

06 Air Conditioner---Operating Parameters



	VALUE	UNIT
Temperature Range	-25 ~ +55	°C
Noise	65	dB(A)
Cooling Power Consumption	1850	W
Cooling Capacity	5000	W
Heating Power Consumption	3000	W
Air Volume	1500	m³/h

06 Air Conditioning---Working Modes



Cooling Mode

Cooling temperature: [15-50 °C]
Hysteresis: [1-10 °C]

When the internal temperature of the cabinet is higher than the cooling start temperature, the cooling mode is turned on. When the cabinet temperature is lower than the cooling temperature, the cooling mode is ended.



Heating Mode

Heating temperature: [-15-25 °C]
Hysteresis: [1-10°C]

When the internal temperature of the cabinet is lower than the heating start temperature, the heating mode is turned on. When the cabinet temperature is higher than the heating temperature, the heating operation stops.

A large, glowing blue sphere with a bright cyan ring of light around its equator is positioned on the left side of the slide. The sphere has a textured, slightly grainy appearance and a bright light source on its right side, creating a lens flare effect.

7

Maintenance

- **Air Conditioner**

Inspect and clean the air conditioner every 6 months;

For other maintenance of battery modules and the cabinet, please refer to our manuals for detailed instructions.

Thanks For Watching!

