



Fox ESS Stackable Battery

Model:EQ3300/EQ5000/EQ5500/CQ6/CQ7

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From high-strength enclosure to smart internal systems

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30 Seconds Plug & Play with error-proof design.

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Reliable outdoor performance, dust and water-resistant.

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Prevention-Control-Emergency

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Industry-leading cells and integrated fire suppression for every battery pack.

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Certified for key international markets

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A modular stackable design for flexible expansion

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One Series. All Applications. & Seamless pairing with Fox inverters

09 Fox Brand Power

The power behind the brand

From Cell to Structure. Every Layer Reduces Risk.

Structure Overview

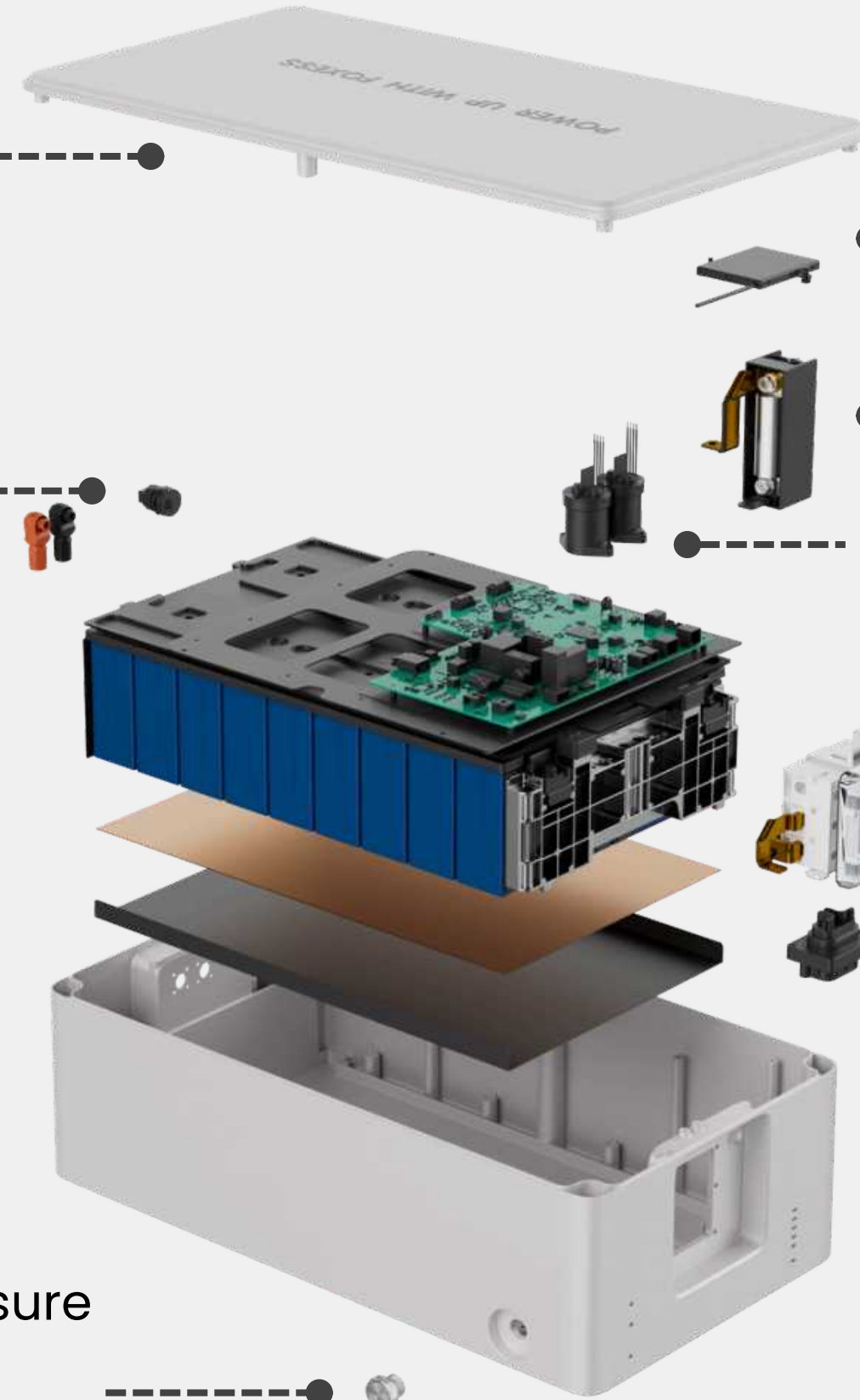
EQ Series Exploded View



Die-Cast Aluminum Housing: Delivers structural strength and long-term durability

RJ45 Port: Direct access for faster diagnostics

Pressure relief valve: Releases pressure before it becomes a problem



Fire suppression: Stops fire before it spreads

Fuse: Cuts fault current in milliseconds

Relays: Ensure reliability even if one relay falls (Backup Design)

DC Breaker: One switch. Full system shutdown.

Keyed connector: Wrong connection? Not possible.

RAPID DEPLOYMENT

Swift Installation, Ready in Minutes

0 Errors. 1 Person. 5 Seconds.



Error-Proof Plug & Play

Hassle-free connection with an intuitive stacking design and concealed handles.



5 Seconds – Rapid Deployment

Get your system up and running in half an hour.



Die-Cast Unibody Enclosure

Stronger, more durable construction with fewer parts for higher reliability and longer



Adjustable Feet

Individually adjustable feet enable fast installation on uneven surfaces—no extra leveling required.



Solo Handling (<50kg)

At least one person can manage the entire unit.

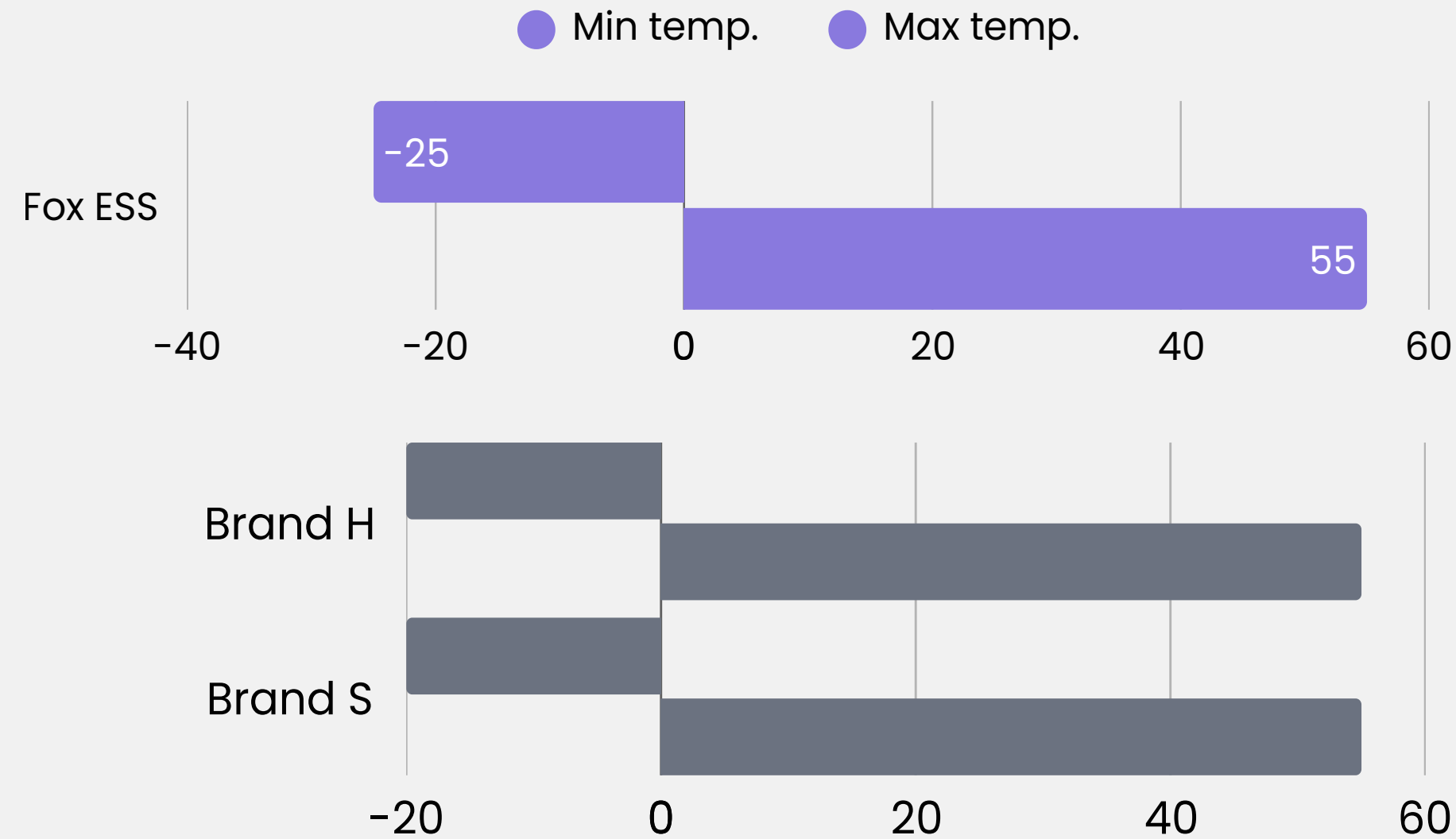
ALL-WEATHER READY



Wider Outdoor Operating Temperature Range

Operates reliably from -25°C to 55°C , covering a significantly wider temperature range

Temp. Range Comparison



Operating Temperature Range

$-25^{\circ}\text{C} \sim 55^{\circ}\text{C}$

Covering a significantly wider temperature range than conventional outdoor energy storage systems.

Features



IP65

Designed with dustproof and waterproof protection for long-term outdoor installation.



Heating module

Automatic battery heating is activated in extremely cold conditions to maintain battery performance and system stability.

Comprehensive Protection

Prevention-Control-Emergency

Prevention



- Tier-1 cell and electronic component selection
- AI-driven intelligent control based on big data algorithms
- Automotive-grade chips and automotive-grade system architecture
- Real-time alarm notification and alerting mechanism

Control

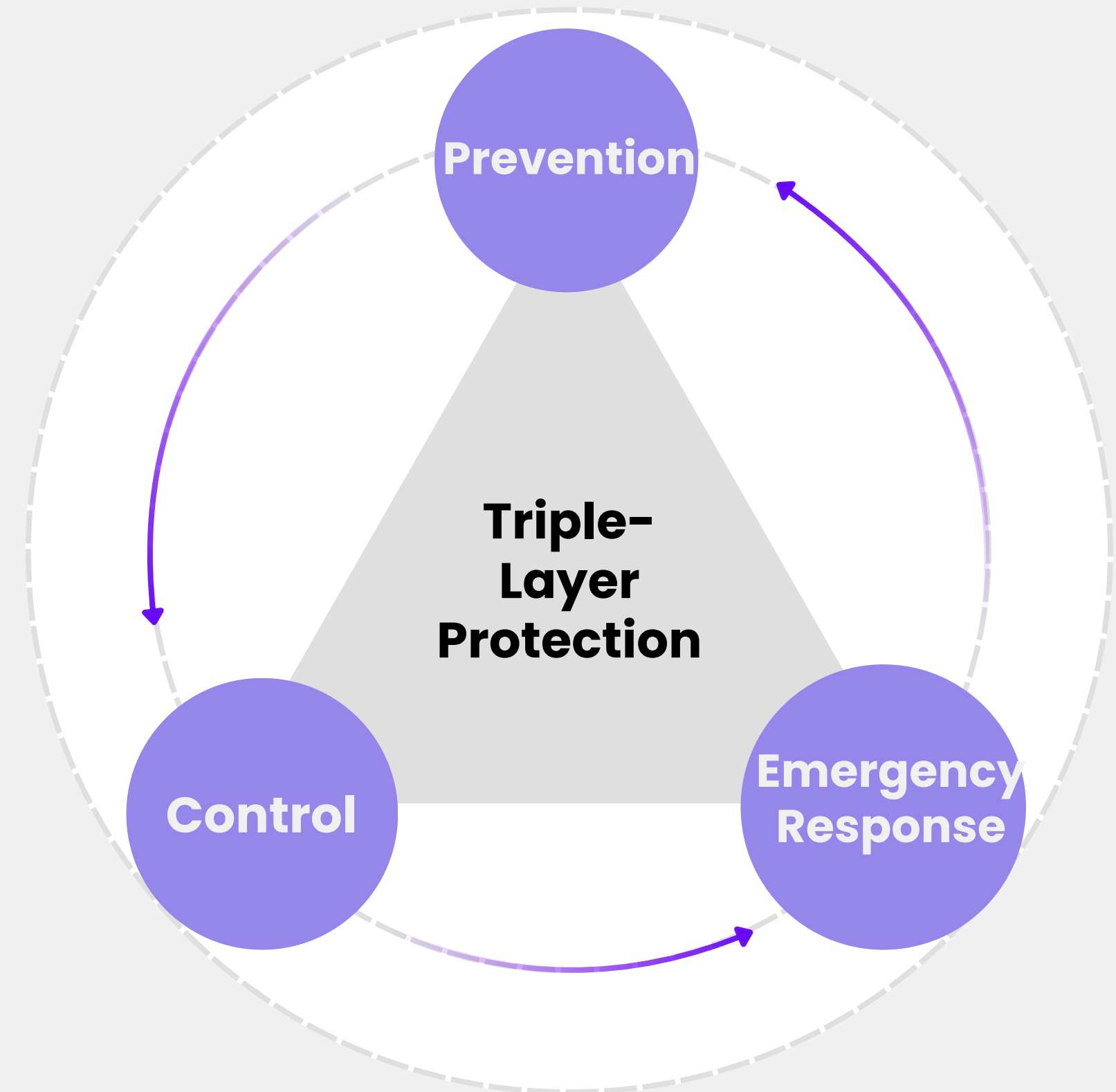


- Millisecond-level software control
- Module-level fuse and relay for physical disconnection
- Dual-relay redundant design
- DC circuit breaker protection

Emergency Response



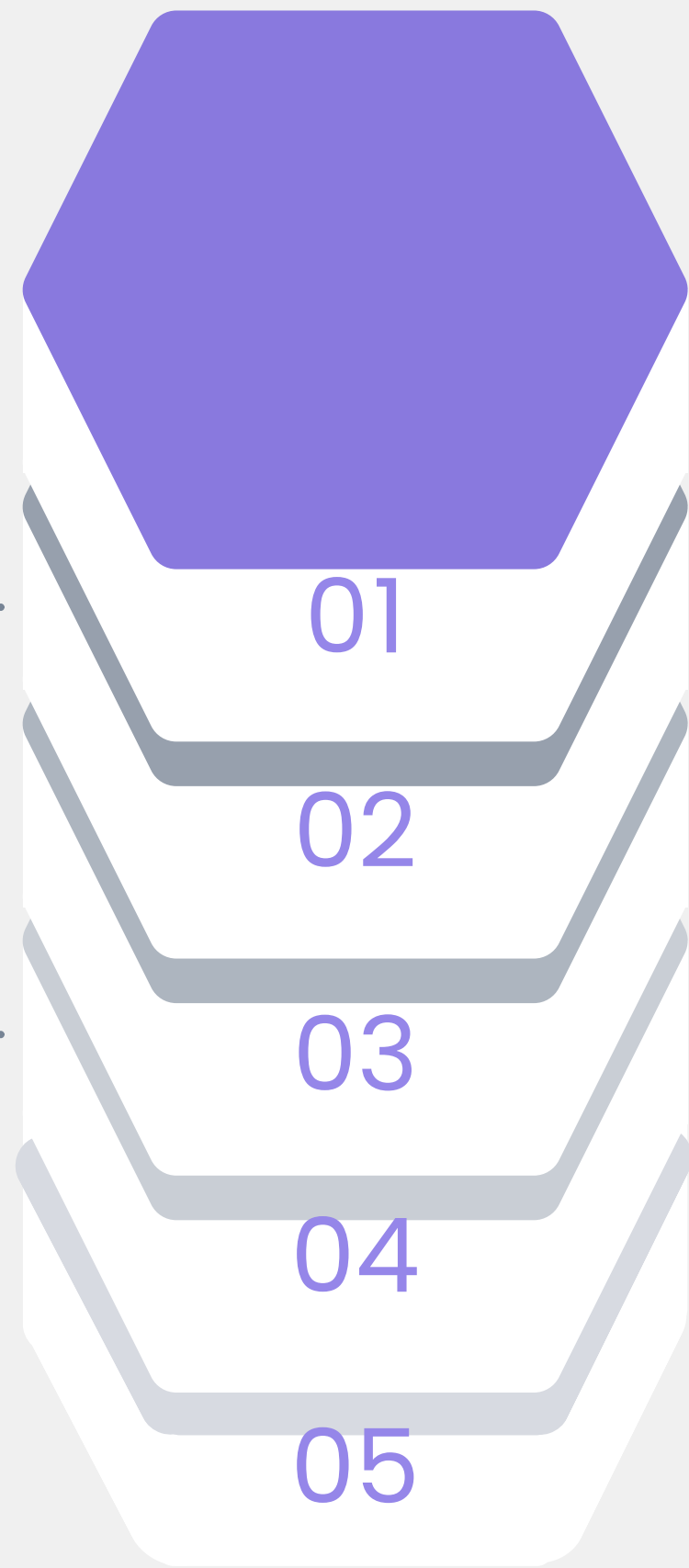
- Aerogel insulation between cells to prevent thermal propagation
- Module-level aerosol fire suppression for rapid extinguishing
- Module-level pressure relief valves to prevent explosion



No single point of failure.

Safety. That's FoxESS.

From cell to system — protection at every level



02. Electrical Protection

- Dual fuse protection (redundant=**back up design**)
- Fast **relay disconnection**
- **DC circuit breaker** protection
- Millisecond-level software response

Cell-Level Protection 01.

- Industry-leading **LFP cell** chemistry
- Strict cell selection and consistency control
- Full lifecycle **safety testing** (cycle, nail penetration, etc.)

Structural Protection 03.

- **IP66**-rated dust and water protection
- Withstands up to **~5 tons** of mechanical load
- **Aerogel thermal insulation** to prevent heat propagation

04. Active Protection

- **Multi-sensor** monitoring (voltage, temperature, etc.)
- **AI-driven** data analysis
- Fault detection and early **warning system**

Emergency Protection 05.

- Aerosol-based **automatic fire suppression** system
- Fire detection and activation within **15s**
- Explosion-proof **pressure relief valve**
- System-level emergency shutdown

Tier-1 Battery Cells

Battery Systems — Built with Tier-1 Cell Suppliers

Powered by REPT LiFePO_4 cells, trusted across global automotive and energy industries.



LiFePO_4

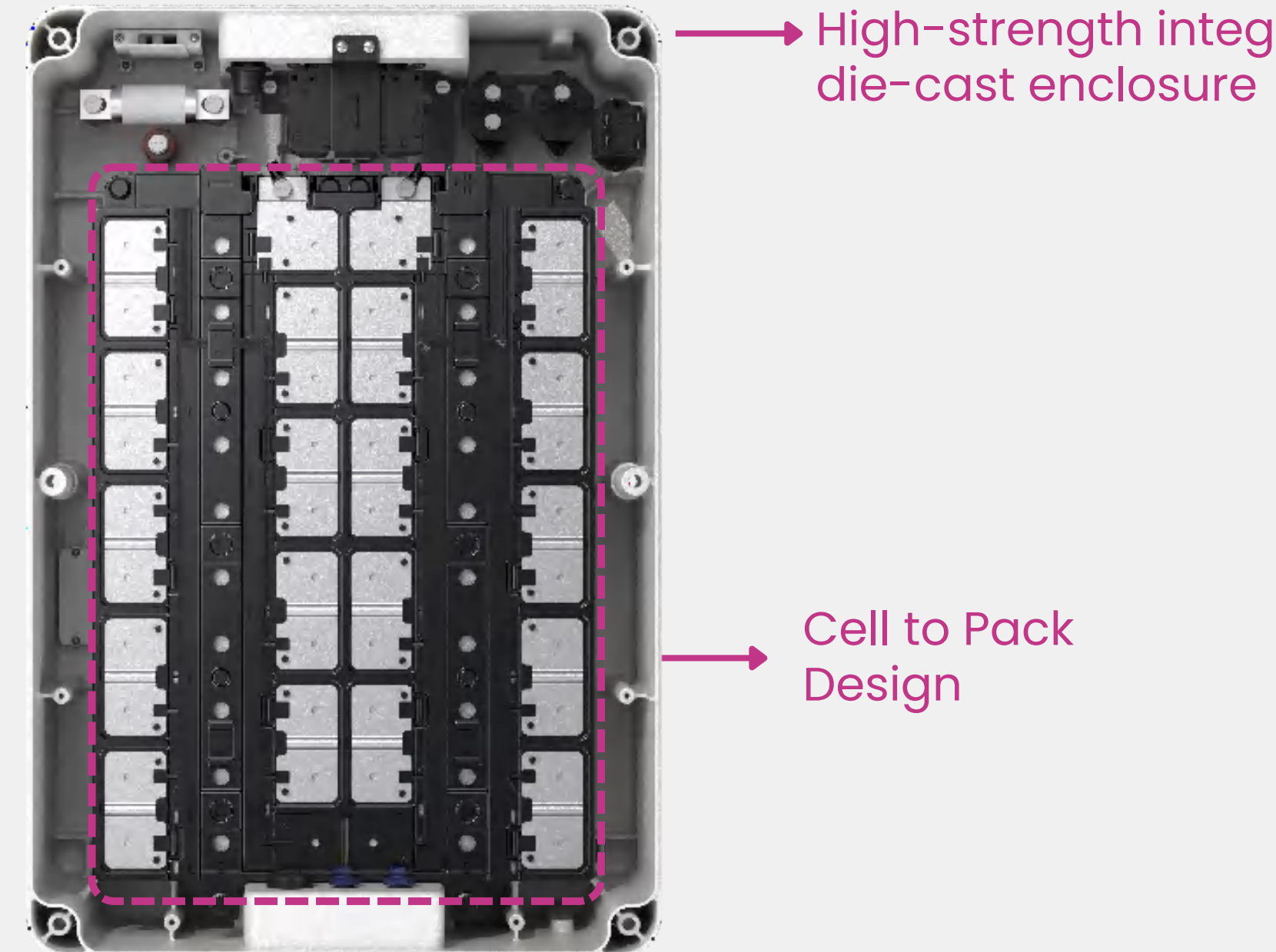
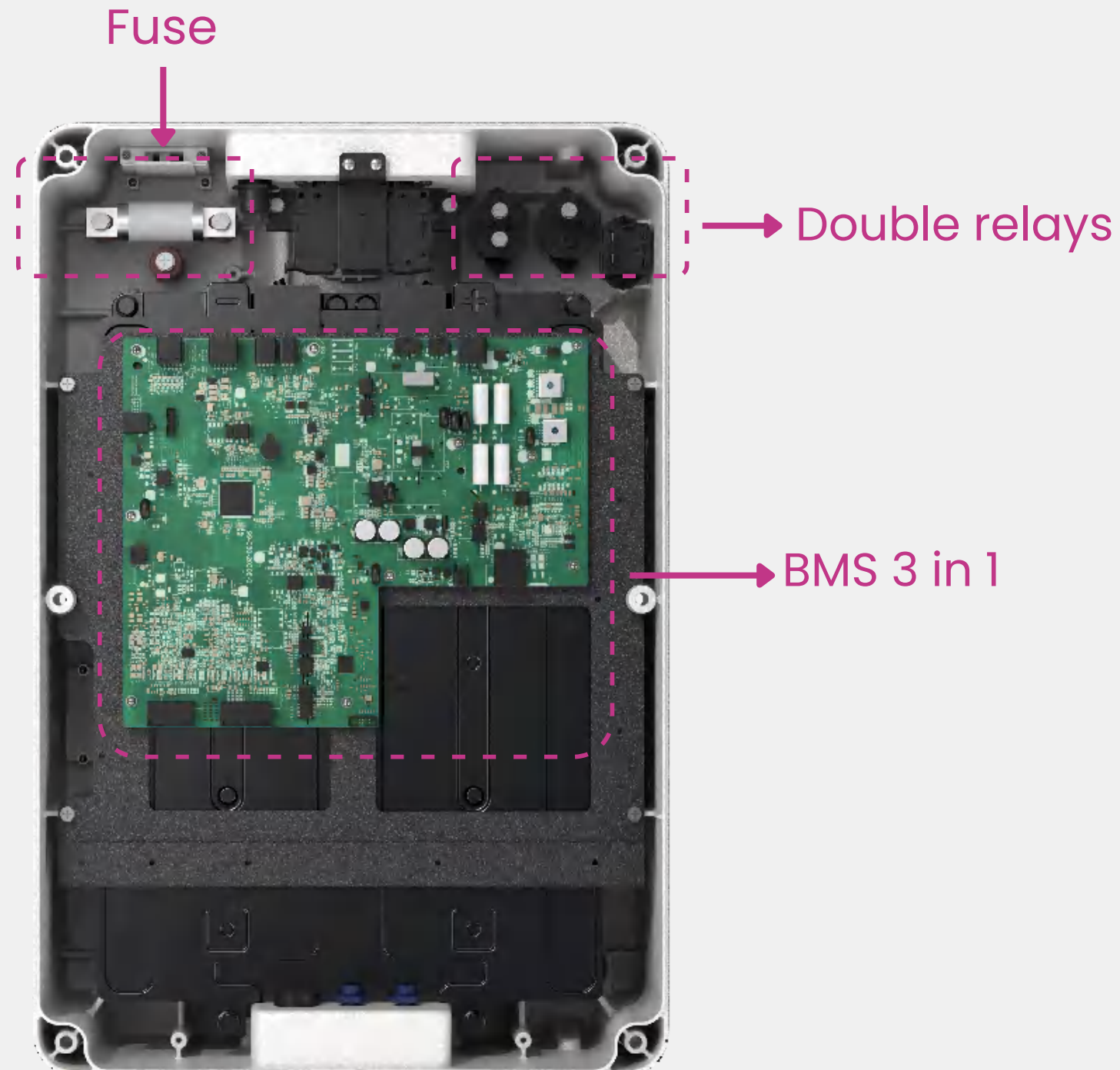


Passed nail penetration, drop, and crush tests, and certified to multiple international safety standards.

Integrated. Secure. Efficient

Battery module hardware design

3-in-1 BMS & Die-Cast Shield & Fewer Wires



- **Safety Driven**

Eliminating connection risks via 3-in-1 integration.

- **CTP Optimized**

Reduced wiring, compact size, and superior thermal management.

- **Profit Focused**

Extended MTBF for continuous power and higher financial returns

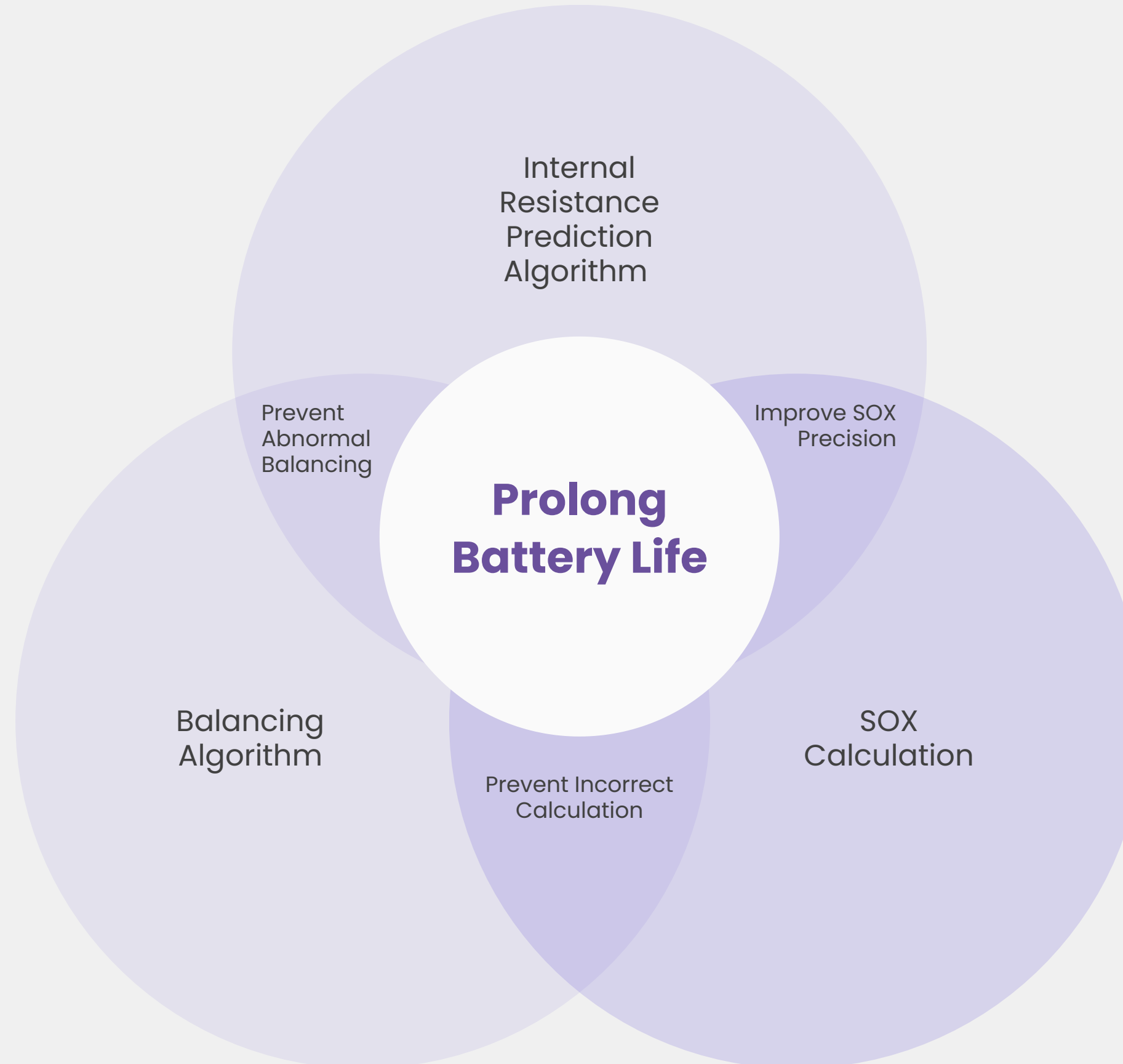
AI-Driven Strategy for Extended Battery Lifespan

Precision Prediction + Intelligent Balancing + Adaptive Thermal Control



AI Algorithms

Stable Curve
High Precision



Thermal Management

Self-learning for
longer battery life.

ULTIMATE SAFETY ASSURANCE

Dual-Layer Module-Level Protection

Smart Fire Suppression + Rapid Pressure Relief: Blocking Risks at the Source.



- **Module-Level Fire Suppression**

Each battery module has its own independent fire suppression module for precise, localized protection.



- **Module-Level Pressure Relief Valve**

Each battery module is equipped with an industry-grade pressure relief valve to enhance safety and reduce damage in fault conditions.



International Compliance

Global Safety Certifications

Certified for key international markets



Complies with the Following International Standards:

IEC 62619:2022 (including thermal runaway propagation)

LVD:

- IEC 62477-1:2022
- EN IEC 62477-1:2023

IEC 62040-1:2017

IEC 62040-1:2017/AMD1:2021



UN38.3

EMC

Modular Energy Storage

Main Parameters

From 3.2kWh to 98.28kWh (EQ&CQ)

- High Current
- Large Capacity
- Strong Compatibility



Rated Capacity

Max. Charge/Discharge Current

Max. System Capacity (With one BMS)

EQ3300

3.2kWh

50A

6.4~19.2kWh

EQ5000

4.92kWh

50A

9.84~29.52kWh

EQ5500

5.37kWh

50A

10.74~48.33kWh

CQ6

5.99kWh

100A

11.98~83.86kWh

CQ7

7.02kWh

80A

14.04~98.28kWh

*For specific inverter capacity matching, please refer to the compatibility list or contact FOX Technical Support.

A modular stackable design for flexible expansion

EQ Series

Include EQ3300&EQ5000&EQ5500

01

Designed for limited Environment Space

Designed for flexible installation in **basements** and **garages**.

02

Installation Scenarios

IP65-rated enclosure, suitable for **outdoor installation** under standard conditions



Compact and Flexible Design

- Vertical stacking minimizes footprint
- Maximize capacity within limited space

Scalability

Flexibly scalable from residential to light commercial applications.

One Series. All Applications.

CQ Series

Include CQ6&CQ7



1

Zero Wiring Errors

Ensures error-free installation with **no wiring mistakes.**

Quick Installation

From unpacking to operation in just **5s**

2

3

Space-Saving Design

Requires **minimal space** with an efficient layout design.

One Series. All Applications.

CQ Series

Include CQ6&CQ7



Flexible Capacity Expansion

Easily expandable capacity range from
11.98 kWh to 98.28 kWh.

1

Less Complexity, Faster Projects

A streamlined product range reduces complexity, **speeds up installation**, and lowers operational overhead.

2

From Residential to C&I

Seamlessly integrates with Fox ESS inverters across **residential and commercial applications**

3

More Power. Less Height. Less Effort.

CQ Series

Fox ESS CQ7 is **top 1** in energy density (Wh/kg)



Higher energy density means less weight for the same energy — making installation easier, faster, and more cost-efficient.

Grow Your System as Your Needs Grow

CQ Series

Flexible Battery Expansion for Any Scenario



H1 G2 Series
3-6kW
Single-phase



KH Series
7-10.5kW
Single-phase



H3 Smart Series
5-15kW
Three-phase



H3 Pro Series
15-30kW
Three-phase



H3 Plus Series
50-125kW
Three-phase



Power Up with Fox ESS

A Global Leader in Renewable Energy Solutions

3 Core Values



R&D, production, sales & service

Founded in 2019 and headquartered in Wenzhou, China, Fox ESS is a national high-tech enterprise specializing in the R&D, production, sales, and service of renewable energy power equipment, with a strong focus on advanced power electronics.



In 70+ countries & regions

Fox ESS is expanding globally, with plans to establish a presence in over 70 countries and regions.



High-efficiency renewable energy solutions

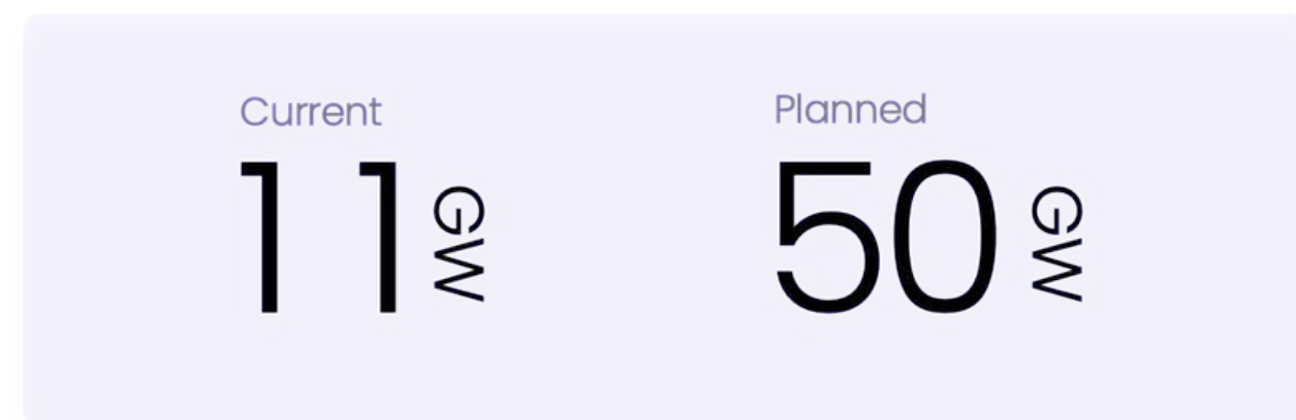
Guided by a customer-first philosophy, we deliver high-efficiency renewable energy solutions worldwide through innovation and exceptional value.

The Dual Evolution of Output and Award

Production Capacity & Industry Awards

61 GW Capacity & International Award

High-Volume Production Capacity



Awards

FORBES 2023
Global Unicorns List

BloombergNEF
BNEF Energy Storage
Tier 1 List 4Q 2024

胡润百富
HURUN REPORT
Hurun China 2024
Renewable Energy
Companies with Potential



S&P Global

No. 1 Market Share
Residential Energy Storage Index (EU)

福布斯 FROST & SULLIVAN
Forbes & 沙利文

Leading Enterprise
2026 Fobes China Pioneer Innovators

All-in-One Home Energy System

Power. Store. Charge. Heat.

One System. Total Home Energy Control.



Residential Inverter
(Grid-Connected & Hybrid)



Battery Storage



EV Charger



Heat Pump