

Fusionsolar

Making the Most of Every Ray

Huawei One-Fits-All Solution 2.0

Empower The Industrial Green Transition With Certainty

Stunning Numbers We Achieved Together with Customers and Partners

800GW+

Global Cumulative Inverter Shipment
(Until 2025)

66GWh+

Global Cumulative Shipment of Grid-forming ESS
(Until 2025)

1880+

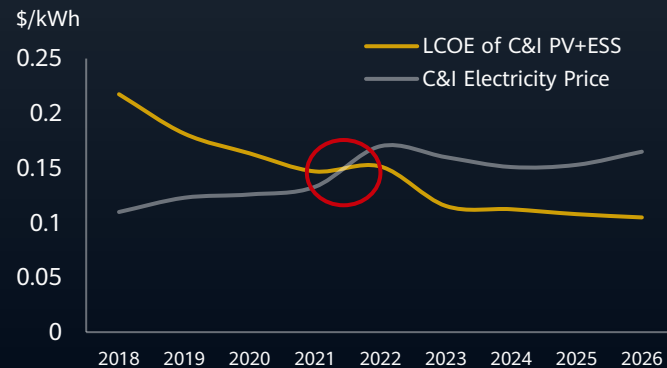
Global Sales and Service Partners

Electricity Cost, Energy Independency and Carbon Neutrality Accelerate Enterprises Prosumer Transition in Green Energy

PV+ESS is the best way to reduce production and services cost

- **10% ~ 40%** electricity's share in production costs
- **5.4%** increase in global average C&I electricity price

Continuous cost reduction of PV+ESS system makes C&I business more attractive



Limited grid access constrains large-scale enterprise expansion

- **40%+** of distribution grids are **40** years old
- **2~3 Years** waiting for distribution grid upgrade
- **€70K** cost of access grid expansion for 150KVa



Countries in red with **50%+** high renewable energy penetration rate

Enterprise demand for carbon neutrality

- **440+** global top enterprise joint RE100
- Carbon price increases **20%+** by 2026 and **80%+** by 2030, as forecasted by EU ETS



Safety, Quality, Revenue and Experience are Major Challenges in Development

Safety Challenge

Fire last for 6 days
@ESS accidents in California



100+
ESS safety accidents in 2024

Source: public reports

Quality Challenge

3%~5% high failure rate of
industrial inverter



91% inverter vendors
phased out since 2008

50%+ ESS vendors
phased out in 2024

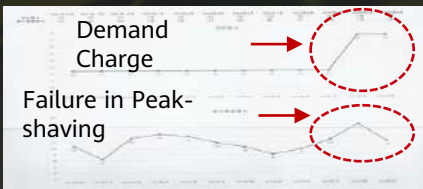
Source: World New Energy Network, GGI Research, China

Revenue Challenge

30% ESS capacity attenuation in
3 years @ESS case in China



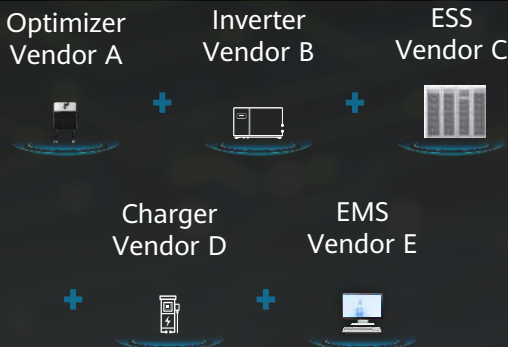
Whole Year revenue loss due to failure
control in peak-shaving @case in Japan



Power demand charged based on the maximum value of the year

Experience Challenge

Multi-vendor Patchwork



- Complex to design, purchase, install, commission and maintain

Huawei One-Fits-All Solution 2.0

Evolving from Lower LCOE to Higher LBOE

Lower LCOE

Higher LBOE*

**LBOE: Levelized Benefit of Electricity*

Lite

≤100kWh @Low Voltage

Pro

100kWh~2MWh @Low Voltage

Max

≥2MWh @Medium Voltage

Proactive Safety

Premium Quality

Higher Profitability

One-Fits-All Capability

C&I Pro Solution: Empower The Industrial Green Transition With Certainty



10-in-1 Excellence

Lower Cost, Higher Values and Safer Journey per kWh

Electricity trading

Stable power supply

Lower LCOE

Higher LBOE*



LUNA2000-241 Series

2

Efficiency

Unique Hybrid Cooling, 91.3% RTE

3

Utilization

Unique Pack Optimizer, 100% DOD

5

Power control

< 50 ms, faster response

6

SOC Accuracy

Higher precision for capacity trade

4

Cycle Performance

Unique Heat Dissipation, 2% Higher SOH

1

Intrinsic Safety

The 1st Large-scale fire test certification

7

Power Quality

THDi $\leq 1.5\%$, better power quality

9

AI Intelligence

AI scheduling cases, extra revenue 20%+

8

One-Fits-All Capability

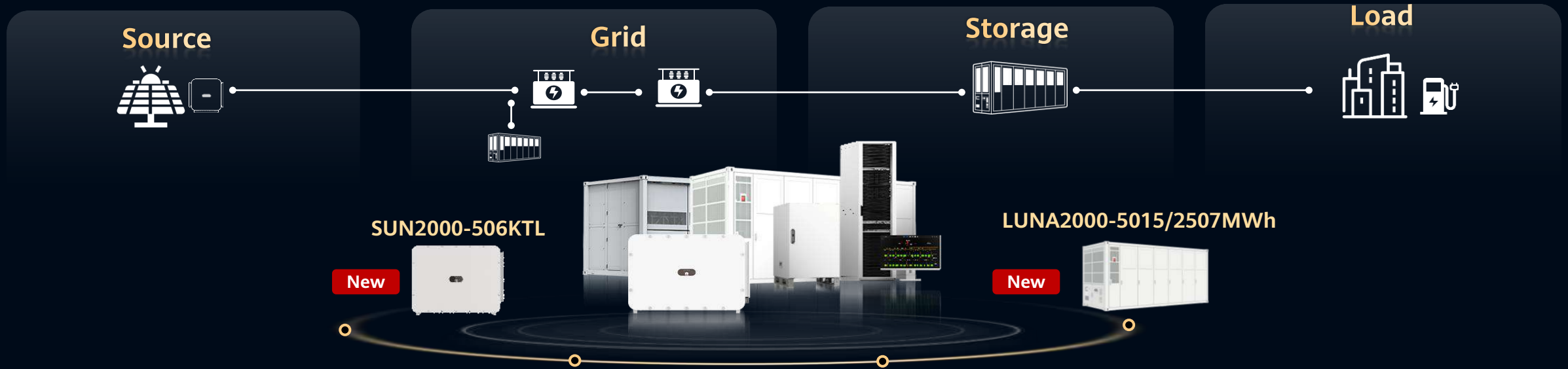
Applicable to Every Scenario

10

Stable Operation

20ms seamless switch

C&I Max Solution: Best-in-class Integrated Solution for Source-Grid-Load-Storage



Most Reliable & Highest Efficiency

- < 0.5% annual failure rate
- 99.999% availability, TUV authentication
- 1% higher power generation revenue



>1GW in Desert
inner Mongolia, 2012



640MW in gobi
Ningxia, China

Leading Grid-Forming Technology

- 150% active power overload resistance
- 20ms On/off-grid Switching
- 10min GWh-level black Start



400MW + 1.3GWh
Saudi Arabia, 2023



3.5GWp + 4.5GWh
Philippines, 2026

Supreme Safety, Optimal LCOS

- Global 1st highest-level safety certification by TUV
- 20%+ full-lifecycle LCOS optimization



DNV-Certified The Large-
scale Combustion Test



30 M\$ revenue improved
500MWh project, Bulgaria

AI Scheduling, Higher Power Quality

- 14 AI models in health guard, load power prediction & electricity trading
- THDi<1%, THDu<1.5%



24h auto-
calculation



Intelligent algorithm

New Generation SUN2000-506KTL Smart String Inverter



NEW SUN2000-506KTL
Industry's first **1000Vac**
Solution

MPPT Current

105A

AC Voltage

25% ↗

Power

50% ↗

VS SUN2000-330KTL



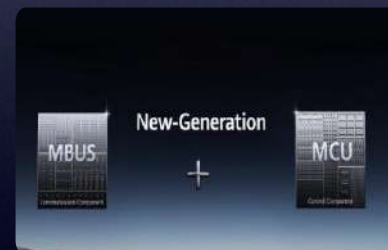
**New
Gen. IGBT Module**

Withstanding voltage↑ 25%



**Unique
Hybrid Cooling System**

Heat dissipation capability↑ 30%



**Unique
Comm.& Ctrl Components**

Industry's 1st dual-channel PLC



**Enhanced
Grid Forming Algorithm**

Industry's 1st GFM string inverter

New generation 30-50kW inverter, contributing to Huawei C&I Lite and Pro Solution

Higher Energy Yield

MPPT high-current design,
compatible with 210R modules

Proactive Safety

DC Type I+II lightning protection
Industry-leading AFCI solution, with a
detection distance of 450 m

SUN2000-30/40/50K-MC0

Long-term Reliability

10-year product evolution,
99.999% reliability

Simplified O&M

Module-level power generation monitoring,
high-precision module fault diagnosis



PV+Optimizer Solution Upgraded, Achieving Higher Efficiency & Ultimate Safety

SUN2000-1600W-PB1



SUN2000/5000-150K-MG0



Lower BOS

Optimizer Power 1600W
Inverter Power 150kW

Higher Yield

98.8% Max. Efficiency
PID Repair Effect 99%

Proactive Safety

Module-Level AFCI for Optimizer
AFCI Detection Range 600 m

Easy O&M

Module-level Fault Diagnosis
Module-level Insulation Monitoring

150k Inverter Enhanced Safety Test Verified by VDE



Smart String-level Disconnection

7.2 ms Disconnection
Intact Switch



Slow Disconnection
Switch Burning

Terminal Overtemp. Protection

100% reliable protection



Connector Melting due
to high temperature

Dc-to-ground Protection

Shutdown within 15 ms,
no damage



Inverter Damage and Fire

Explosion Protection

Directional Pressure Relief
Precise Control for Safe Venting



Explosion Uncontrollable

Huawei
SOLAR

Industry
SOLAR

High-quality EVCI with liquid-cooled ultra-fast charging system

Power Unit



- 240/360kW
- 240/720kW
- 480/600kW
- 600/720kW
- 720/720kW

Dispenser

Max.500A
Boost



...

Max.500A
Liquid-cooled



Huawei FusionCharge liquid-cooled ultra-fast charging architecture

Premium Charging



Power Sharing Matrix

improve power utilization by
5%



Low Noise

≤ **55dB** @25°C, 1m

Superior Quality



Long Life

10 years lifespan



Lower Failure Rate

Module failure rate < **0.2%**

Flexible Architecture



Modular Design

Dispenser scalable,
max. **12 cars** charging



PV+ESS+EV Charger

Integrated solution
Support **AC/DC** ESS

The logo for Fusionsolar, featuring a stylized red 'F' icon followed by the word 'usionsolar' in a red sans-serif font.

Fusionsolar

Smart String ESS Platform: Brand New Upgrade

LUTERRA® : Powering Everywhere, Anytime

L U T E R R A

Innovation Never Stops

AI Enabling **4.3M+** Families Worldwide

Industry's first
**Battery-ready
Architecture**



Industry's first
**One-Fits-All
PV & ESS Solution**



Industry-leading
AI Scheduling



Industry-leading
New Generation



2017~2020

2021~2024

2025

2026

The Ultimate in Smart Home Energy

LUTERRA S2



red dot winner 2026

The Winner of Red Dot Award:
Product Design 2026



FusionSolar APP3.0



red dot winner 2025

The Winner of Red Dot Award:
Brands & Communication Design 2025

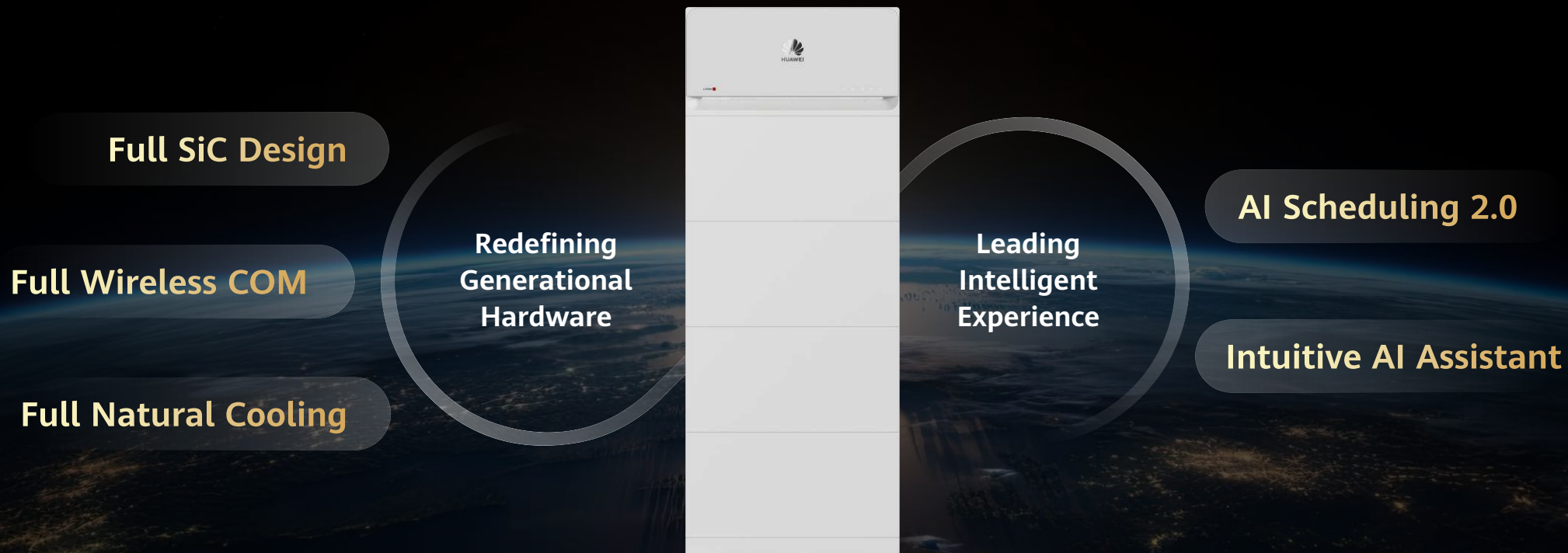


Ultimate Experience

Ultimate Intelligence

Ultimate Safety

Pioneering New Generation Through Breakthrough Innovation



Ultimate Experience : Deliver Industry-leading Efficiency

Self-developed Architecture

Conventional Architecture

Max. Three-phase Inverter Efficiency

Full SiC MOSFET Design

High-frequency +
High-precision Algorithm

ANPC Topology

LUTERRA S2

>99%

VS

SUN2000 MAP0

Other Vendors

98.6%

98.3%

Si IGBT Design

Conventional
Algorithm

T-Type Topology

*Above data applicable to three-phase LUTERRA S2 from 12 kW to 20 kW

Ultimate Experience : Deliver Industry-leading Energy Throughput

Max. Lifetime Energy Throughput Per kWh

LUTERRA S2

>5.0MWh

VS

LUNA2000 S1

4.2MWh

Other Vendors

3.5MWh

Compared with
other vendors

40%+ ↑

Built-in
Energy Optimizer

Innovative
Cooling System

*S2 5 /7kWh packs, total energy throughput exceeds 5 MWh within product lifespan.

*For details about the warranty policy in each region, please check the service white paper.



Innovative
Cooling System

Built-in
energy optimizer

Ultimate Experience: Industry-first Full Natural Cooling Up to 20kW

Industry-first

Full Natural Cooling, up to 20kW

LUTERRA S2

<29dB
Ultra quiet

VS

Other Vendors

>45dB
Noticeable noise

*Above data refer to specific condition operating at rated power, 1 m separation, 25 °C ambient temperature



Ultimate Experience: Deployed in Minutes

<10min Installation

Lighter

17%↓

LUTERRA S2

46kg



Industry

55kg

Battery Weight /5KWh

Faster

Push &
Pull
Handle



Quick-plug
Connector



Smaller

43%↓

LUTERRA S2

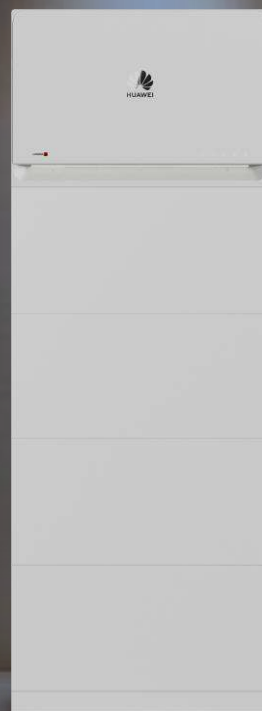
0.62m²



Industry

1.08m²

Wall Space



<5min Commissioning

*Full Wireless
Communication*



Auto Networking



Intuitive Guidance



Ultimate Experience : On-demand Expansion



Single-phase
3~6kW

Three-phase
5~20kW

Battery
Mixed **5/7kWh**

Flexible Expansive
Up to **4 packs** for 1 cluster
Max Up to **3 clusters**

↑
×4
packs



Single-phase

Inverter
18kW Max

Battery
84kWh Max

→ **×3** Clusters

↑
×4
packs



Three-phase

Inverter
60kW Max

Battery
84kWh Max

→ **×3** Clusters

3rd Institute Safety POC Test Reference: Cell-level Protection, No Fire Risk, Industry-leading Safety



S1-5kWh

VS

Vendor A

Vendor B

Vendor C

Only one cell suffers
No spread

« Thermal Runaway Test »

cell risk
spread to the pack

cell risk
spread to the pack

cell risk
spread to the pack

Slight fumes
rapid venting

« Potential Risk »

14min Dense Smoke
Electrolyte leaks

90min Dense Smoke
Electrolyte leaks

System Suffers
Severe Fire

From Cell to System, Pioneering Ultimate Safety

Industry-first

Directional Smoke
Exhaust Flue



*Limit the Impact
to the Lowest*

Industry-first

Full-Link Terminal
Overheat Detection



*Enhanced
Active Protection*



AI Scheduling 2.0: Drive Continuous Revenue Improvement through Optimal Scheduling

AI Scheduling 1.0

20%+

Average revenue increased

Dynamic electricity pricing scenario

10kW+10kWh

Huawei Revenue

€ 259/year

Other Vendors' Average Revenue

€ 127/year

Sweden

Negative electricity price scenario

10kW+21kWh

Huawei Revenue

€ 280/year

Other Vendors' Average Revenue

€ 128/year

Belgium

AI Scheduling 2.0

30%+



Average revenue increased

Revenue Sharing from VPP

Higher Self-consumption Rate

Greater Tariff Arbitrage Gains



* All data processing strictly complies with the General Data Protection Regulation (GDPR).



Ultimate Experience with AI Assistant

User Journey of Energy Management

1

Current Status Interpretation

FusionSolar App **Response time**

In Seconds

VS

Other Vendors

In Minutes

2

Action Recommendation
+
Action Execution

FusionSolar App

Supported

VS

Other Vendors

Not Supported



Booming Eco-System, Further Improve User Yield

Mini Backup

toscano

Charger

wallbox

Zaptec

ambibox

KEBA
Automation by innovation.

MENNEKES
MY POWER CONNECTION

Heat pump

Vaillant

MYEV
Engineering in the future

Saunier Duval

WOLF

TONGYI

Midea
Building Tech.

Smart Switch

SHELLY
GROUP

Heater

ASKOMA

Extensive
Appliances

LOXONE

Enode

tibber

Beebop

ostrom

POWR

podero

bambooenergy

CheckWatt

FLOWER

300+ VPP
partners

gridX

RENESYS

MARKEDROID

spock

Enpal.

SPOT MY
ENERGY

reduxi
AI Electricity
Control

delta
green

SOLAR
ELECTRICITY GENERATION

PowerX

*Logos shown above have obtained legitimate authorization.

Ultimate Experience

Lighter

min **46kg**
Pack weight

17% ↓
VS. Others

Smaller

0.6m²
Wall Space

43% ↓
VS. Others

Faster

<10min
Installation

<5min
Commissioning

Industry 1st

Full Natural Cooling

< 29dB
up to **20kW**



Industry-leading Full SiC Design

>99%

Max Inverter Efficiency



Industry-leading Full Wireless COM

Auto Networking

Compatible with HUAWEI Router

LUTERRA S2

The Ultimate in Smart Home Energy

Ultimate Experience | Ultimate Intelligence | Ultimate Safety



Ultimate Safety



Full Protection
From cell to system

Ultimate Intelligence

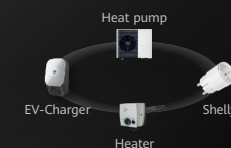
AI Assistant In Seconds



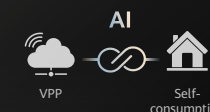
- 1 Current Status Interpretation
- 2 Action Recommendation
- 3 Action Execution

AI Scheduling 2.0

Appliance Dynamic Scheduling



VPP Optimal Scheduling



Average revenue increased **30%+↑**



Pilot Recruitment
2026.Q3



Order & Delivery
2026.Q4