

Power Thousands of Homes



HiEnergy Series

Single-phase All-in-one Solution

6kW | 10/15kWh

V-TAC
Meaningful Innovation.

HİCONICS
Midea Industrial Tech.



CONTENT

1. Product Overview

2. Highlights

3. Working Modes

4. Our Service

Product Overview

Core Components of HiEnergy-S

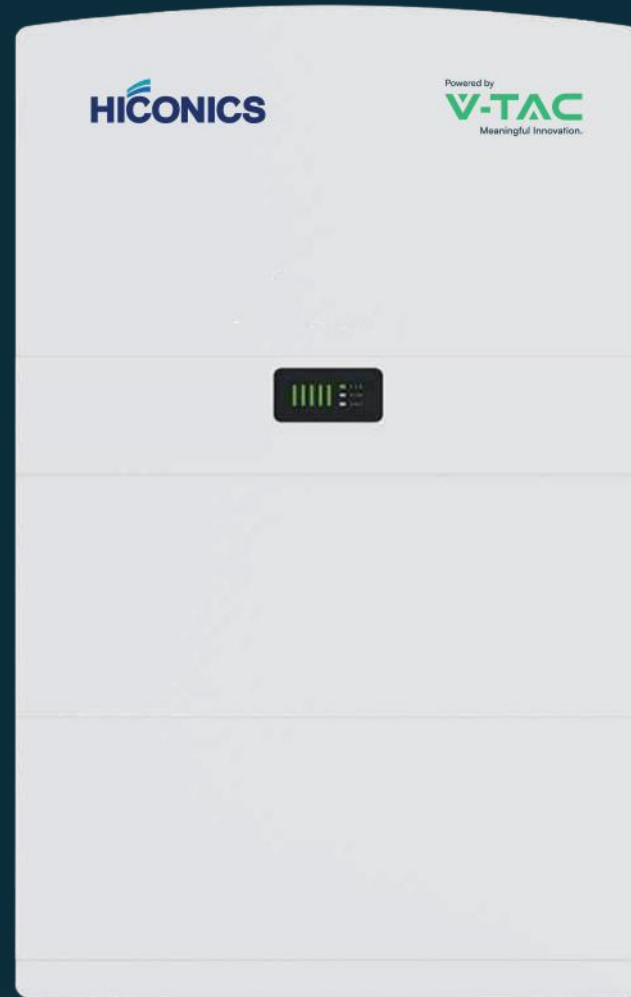
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Battery indicator



Base



Hybrid inverter



BMS box



Battery pack 1



Battery pack 2

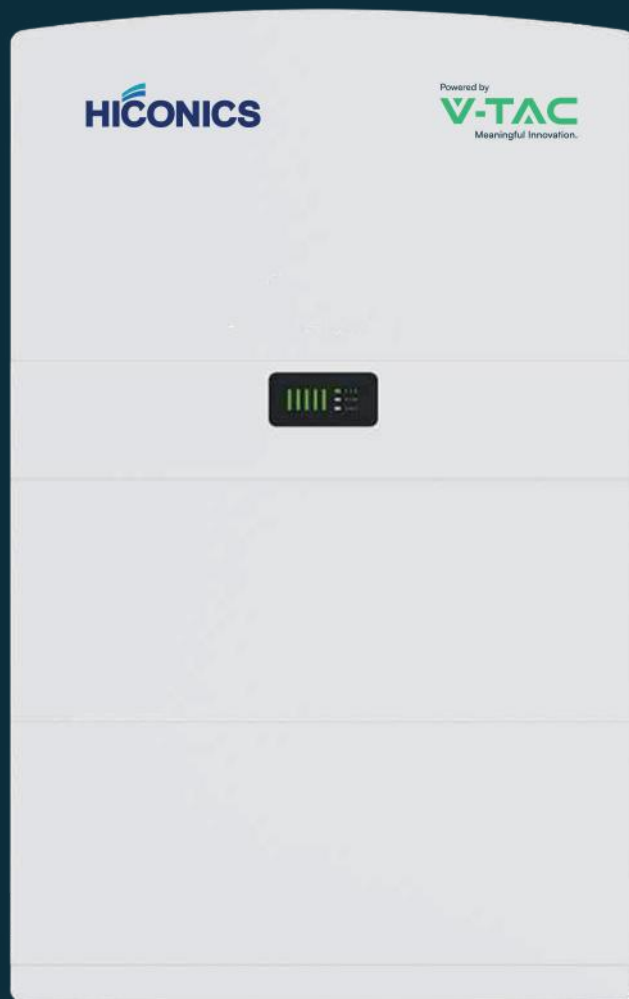


Product Overview

Main data at a glance

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Hybrid inverter

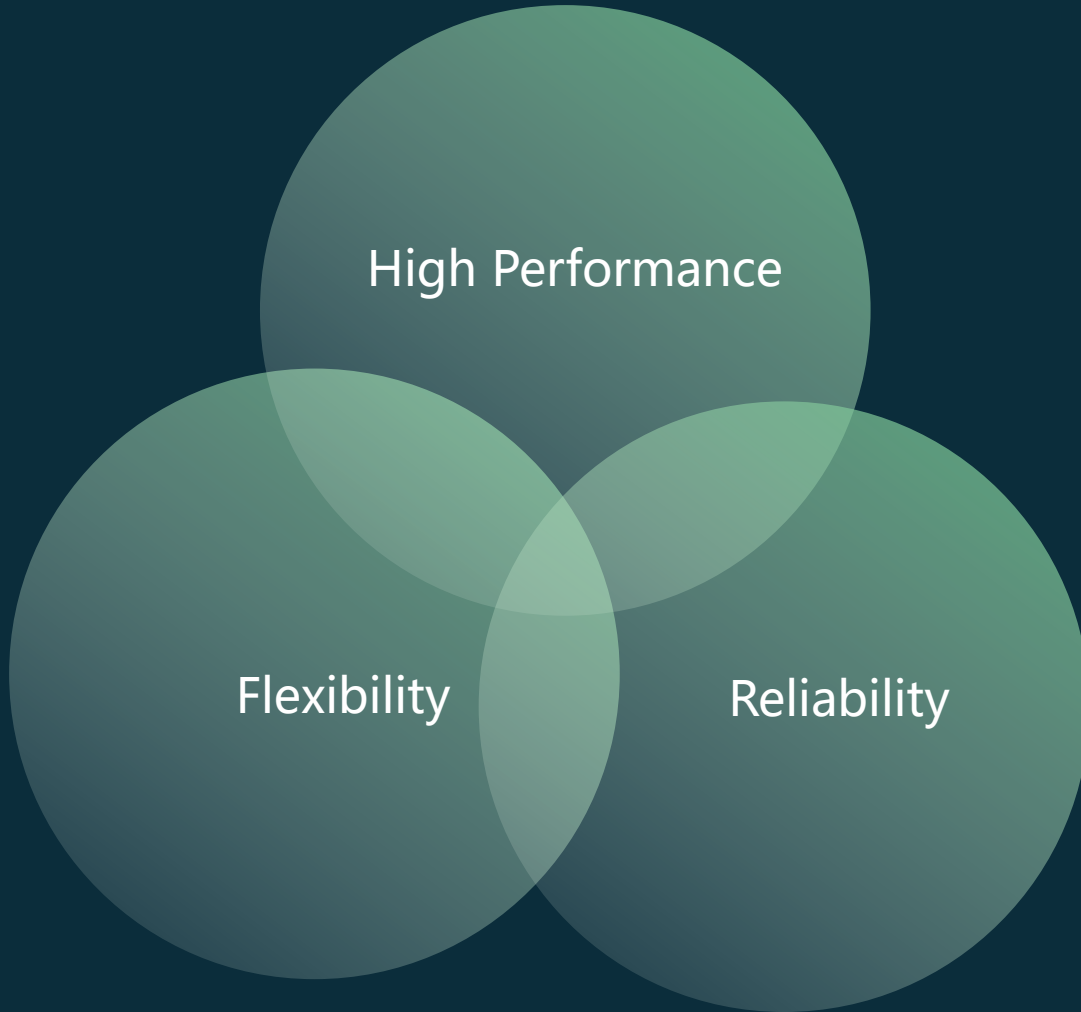
- Maximum input PV voltage: 560V
- Maximum input current: 15A
- Dimension & weight:
800×450×160mm (W x D x H) / 32 kg
- Rated voltage: 120 V
- IP65
- EMS independent R&D

Battery pack & BMS

- 5.12 kWh
- 5 ~ 30 kWh
- Operating voltage: 85-400V
- Maximum charge/discharge current: 25A
- Weight: 55 kg
- Dimension: 800×310×160mm (W x D x H)
- IP65

Product Overview

Main Features of HiEnergy-S



LFP Battery with higher energy density
Max. : <2000m
Higher system efficiency
-20°C~50°C

Aerosol explosion-proof
IP65 protection level
Hidden cabling
Screen-free design

Intelligent Energy Experience

House-wide energy monitoring
One screen for all energy information
Remote monitoring/upgrade/maintenance
Customized appearance design
Single/Three-phase solution

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Product Highlights

High Performance



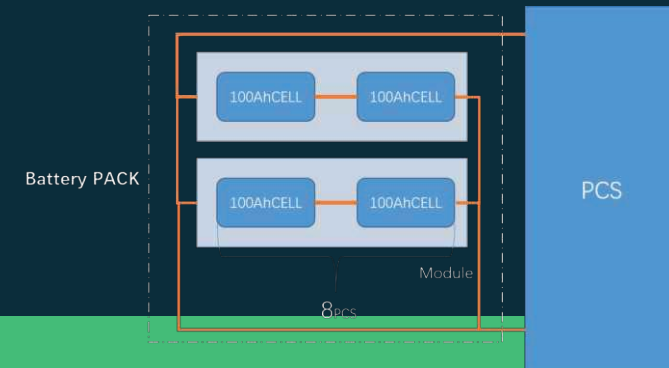
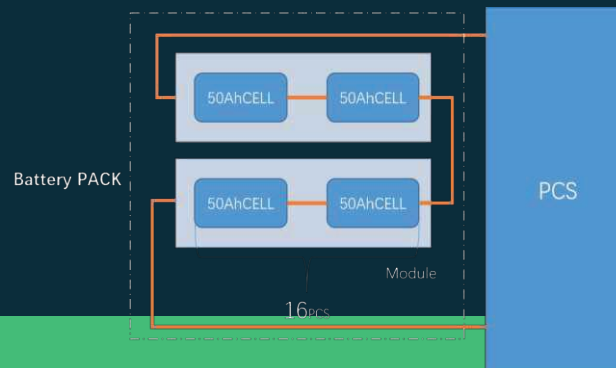
Enables the BMS to monitor a single battery cell

Fully realizes low current, high efficiency and high performance, and facilitates thermal design

Comparative Analysis of High Voltage Solutions & Low Voltage Solutions

	High voltage solution-Parallel	Low Voltage Solutions - Serial then Parallel
Cell short circuit	no effect	Capacity reduced by 30%, can continue to operate
Cell open circuit	protection shutdown	The risk of arc
The cost of battery	High	low, around 5%
The cost of inverter	low	high, around 10%
Battery cycle efficiency	92%	88%

Specific program



Product Highlights

High Performance

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96.8%
PV power grid
efficiency in Europe

99.5%
MPPT efficiency

97.6%
Maximum efficiency

96%
BAT-AC efficiency

Real All-in-one No Extra part

Built-in digital display
Operate state of whole
system

One Click Upgrade
DSP,ARM,BMS

Failure query, precise
locking of module
and cell codes

Single monitoring app
straight through to the
cells and inverter

Historical enquiry
covering issue, use,
sale, cumulative
throughput data

Product Highlights

Reliability

Built-in temperature regulation system

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Module level fire
shield

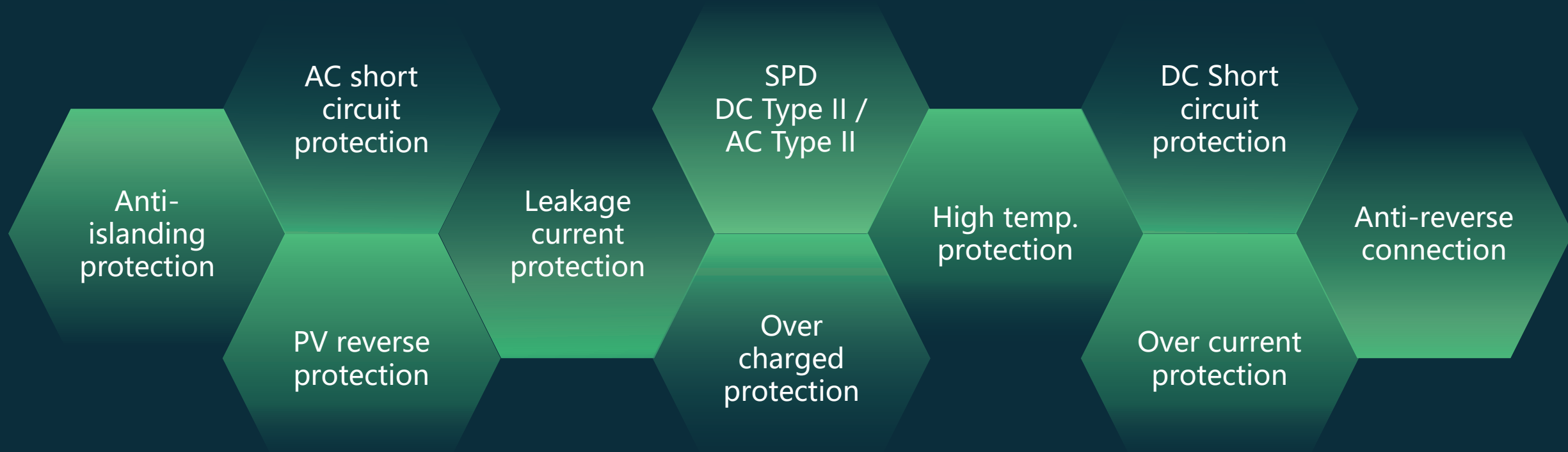
Aerosol Explosion-proof

Product Highlights

Reliability

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Product Highlights

Reliability

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Hidden Cabling

Child & Pet friendly design for
every member of your family

Wireless connection between battery & BMS box / Batteries



Product Highlights

Reliability

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IP65 Rated Level

Even when it's stormy outside,
your home is still warm and cozy.

Support outdoor installation



Product Highlights

Flexibility

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Easy to Install & Expansion

Pre-install every cable

Installation is as easy as stacking Legos

Battery module with snap-in connector for
seconds-level installation



6kW/15kWh

6kW/10kWh

Flexible Expansion

Product Highlights

Flexibility

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Designed for multi-region grid standards

Compatible with single-phase &
three-phase inverters



Product Highlights

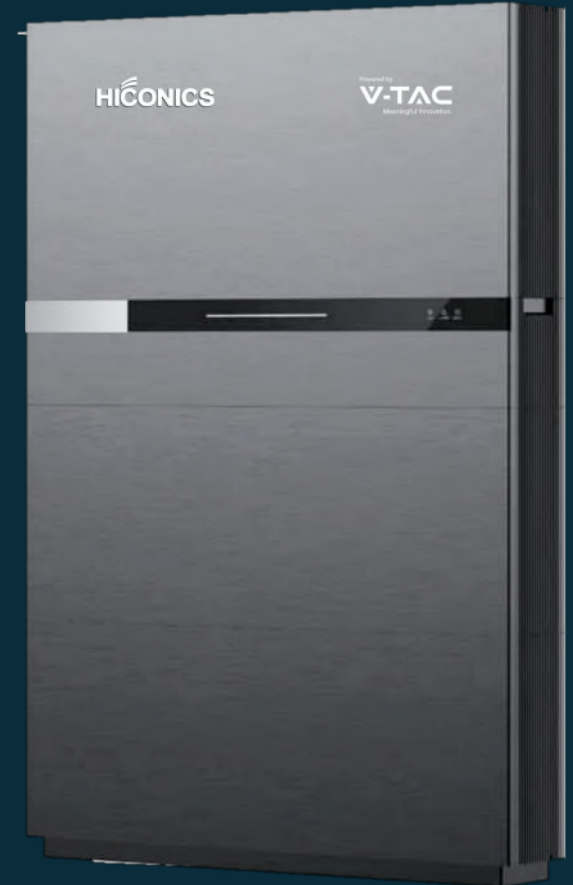
Flexibility

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Customize to be your liking
Beautiful on the outside & powerful
on the inside



Product Highlights

Flexibility — Remote O&M Platform

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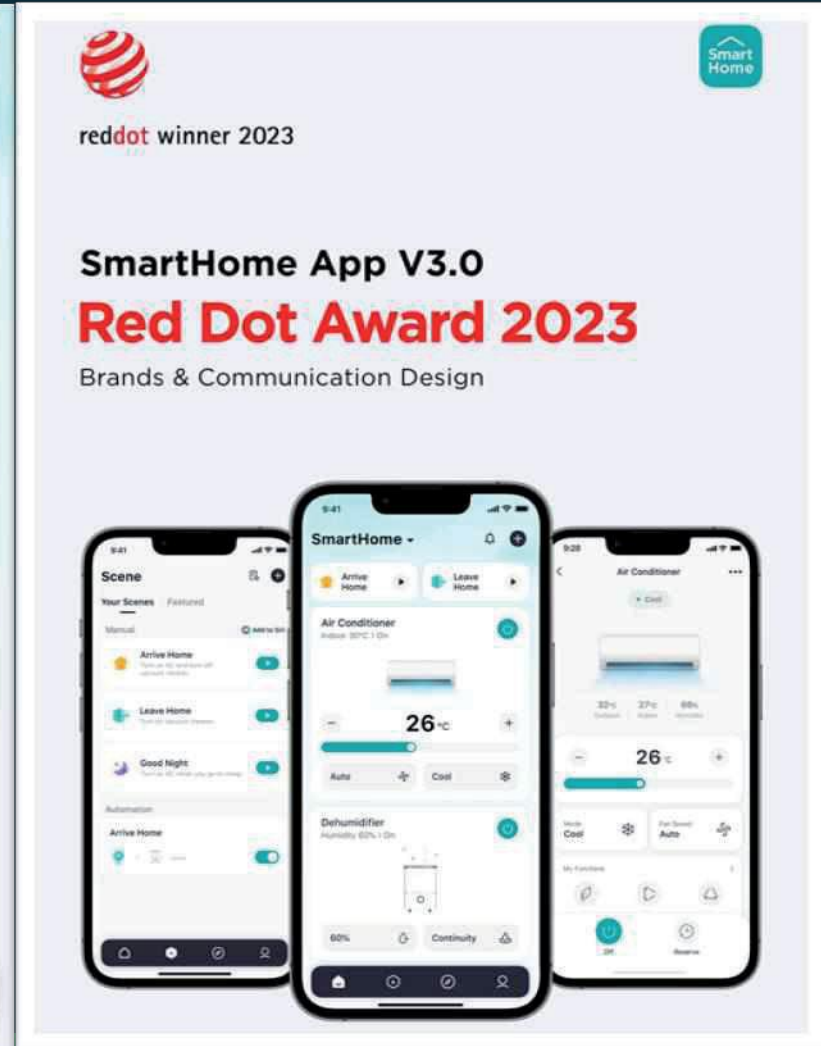
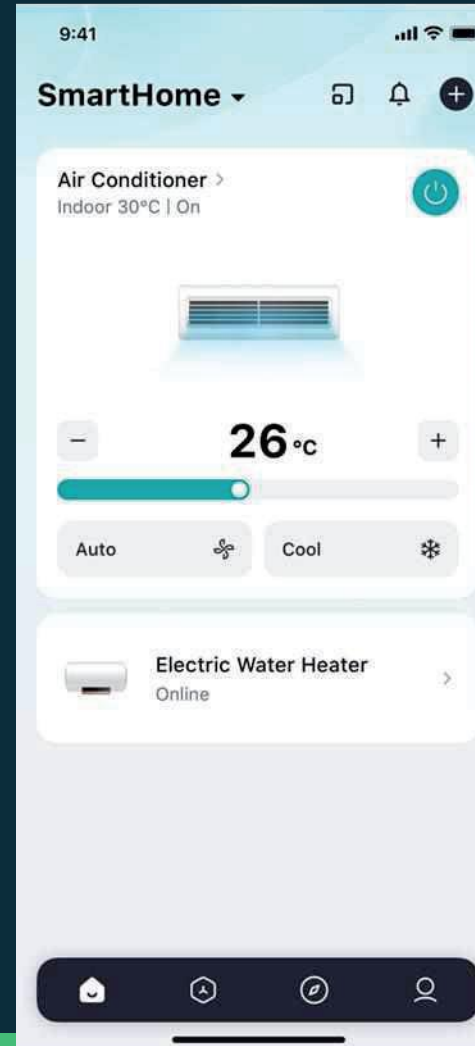
2023 Red Dot Award Winner

SmartHome app is a smart home app created by **Midea 's AI Innovation**, which currently supports the connection and control of smart home appliance devices of all OBM brands of the Midea Group. It serves users in more than **200** countries and regions in the world.



SmartHome

Google Play 4.6分 (US) | App Store 4.1分 (US)

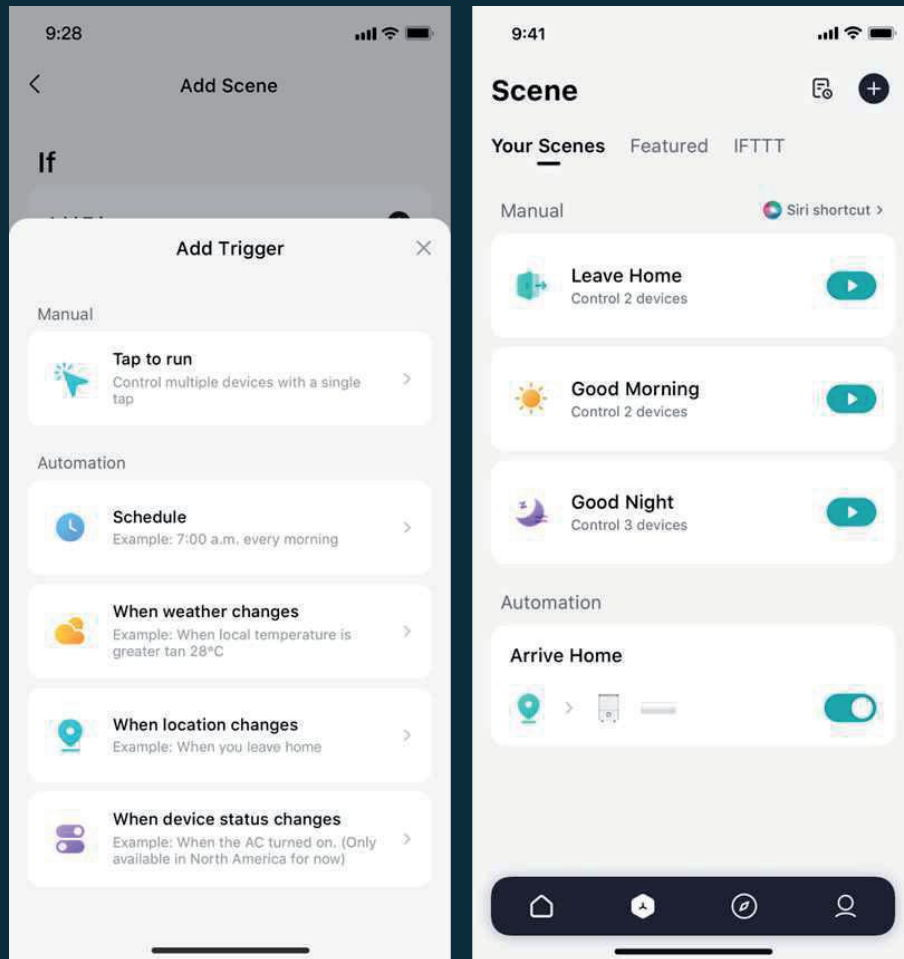


Product Highlights

Flexibility — Remote O&M Platform

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Personalized scenarios & automation

Support weather/location/device status/time and other condition triggers

Smart device connection/control/sharing; device status control & task reminders

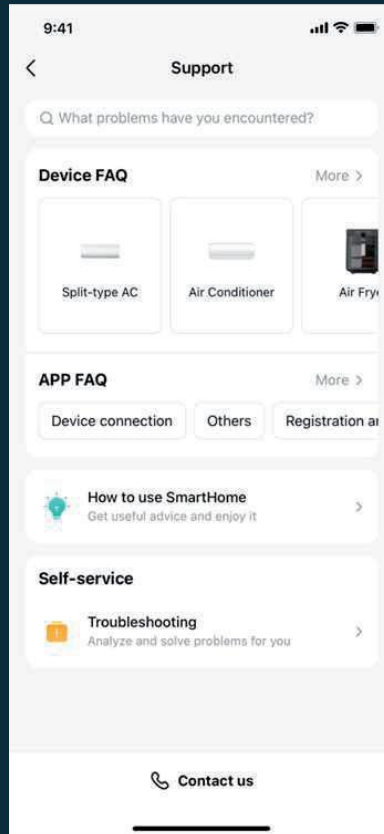
Product Highlights

Flexibility — Remote O&M Platform

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User care — One-stop Service

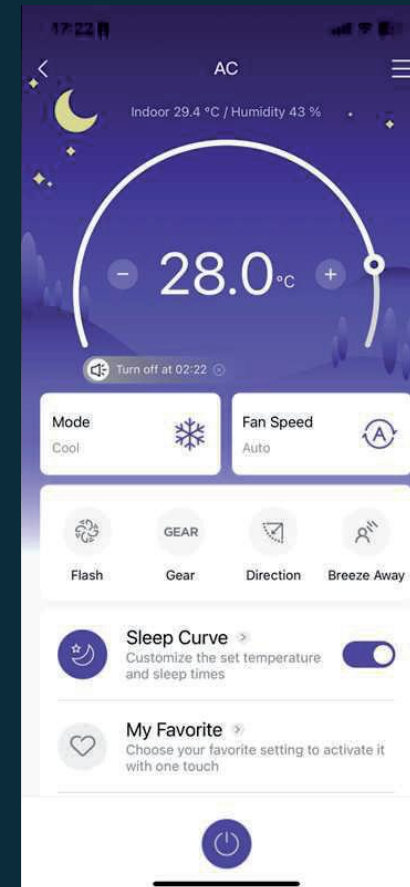


Troubleshooting

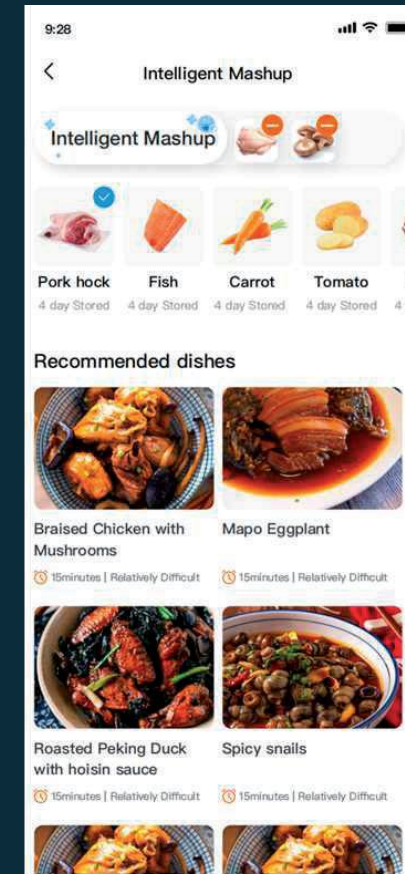


FAQ

Multi-category Intelligent Services



Air conditioner sleep profile



Smart recipes

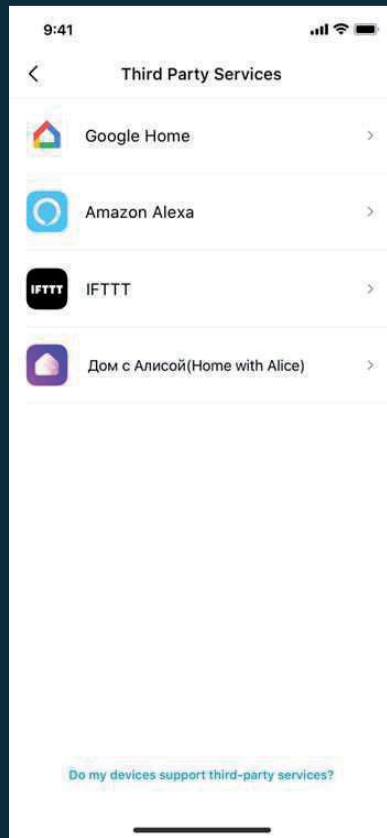
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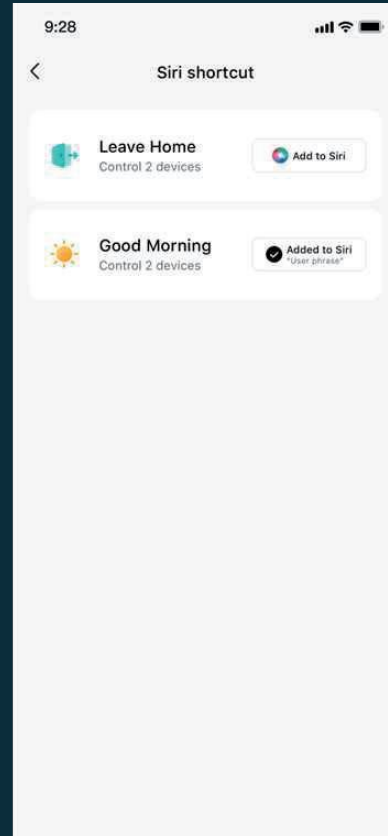
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Third-party eco-services

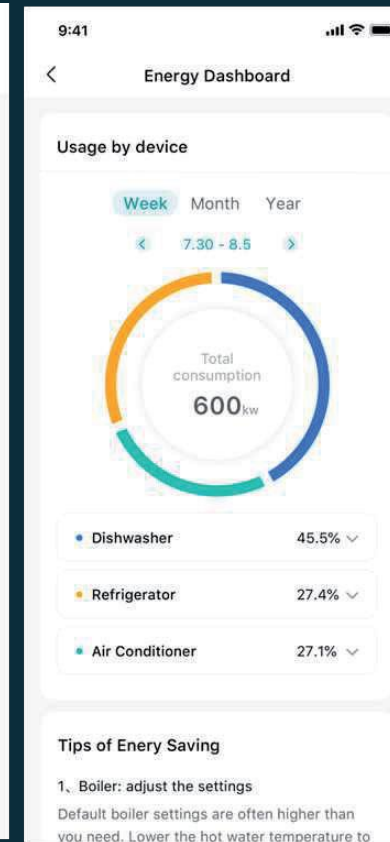


Works with Google Home, Alexa, IFTTT



Siri support

Cross-category energy consumption data & energy saving suggestions



Product Highlights

Flexibility — Remote O&M Platform

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Accelerated growth over **3** generation

V1.0

AI Energy Management:

2023/12

- Dynamically Regulating Home Energy Use
- Linkage with international Mercure & OEM platforms

V2.0

AI Green Powering

2024/12

- Enhance home green power rate
- Optimize green energy utilization strategies

V3.0

Multi-family Energy Scheduling

2025/12

- Dynamic regulation with regional synergy

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2. Highlights

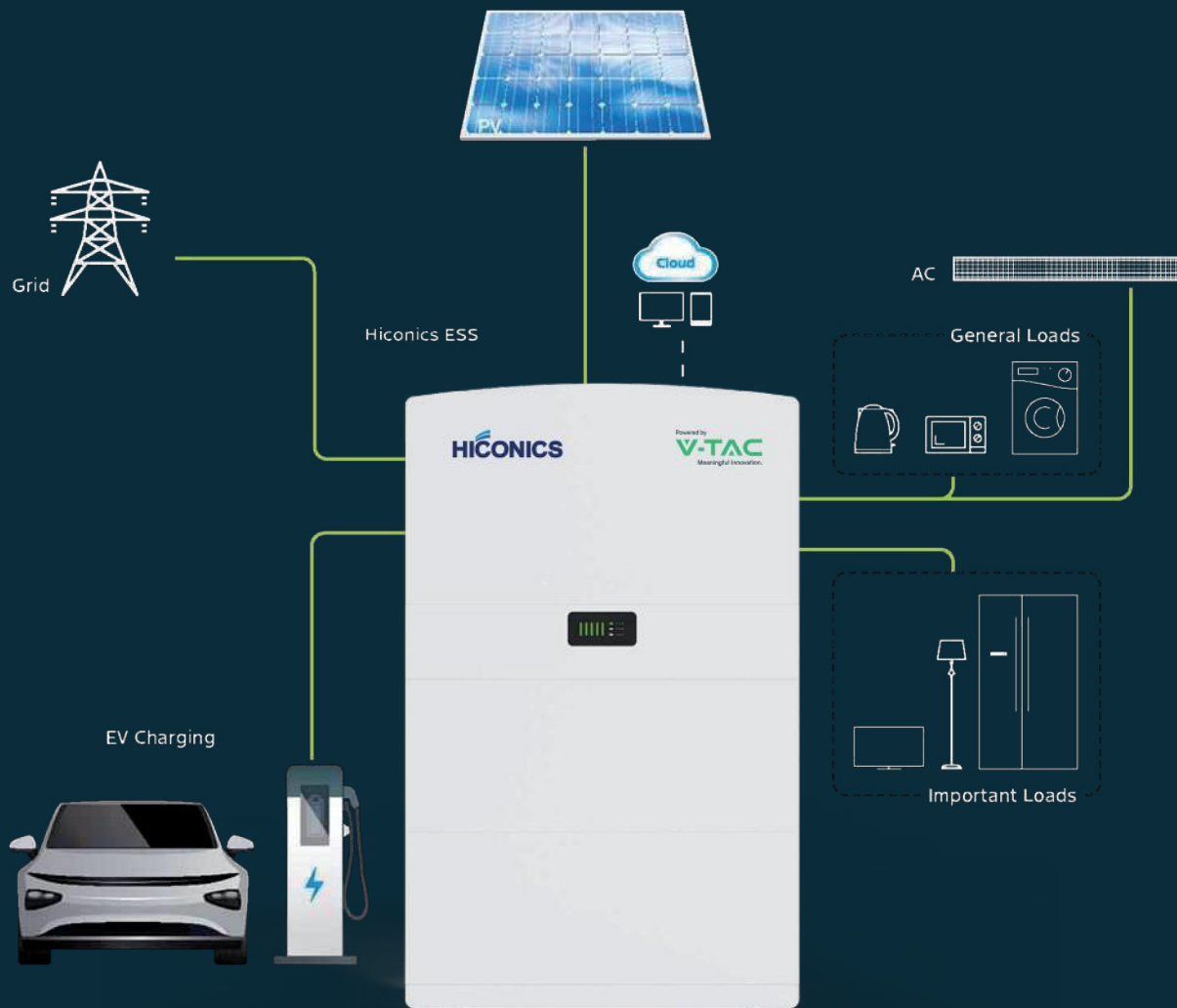
3. Working Modes

4. Our Service

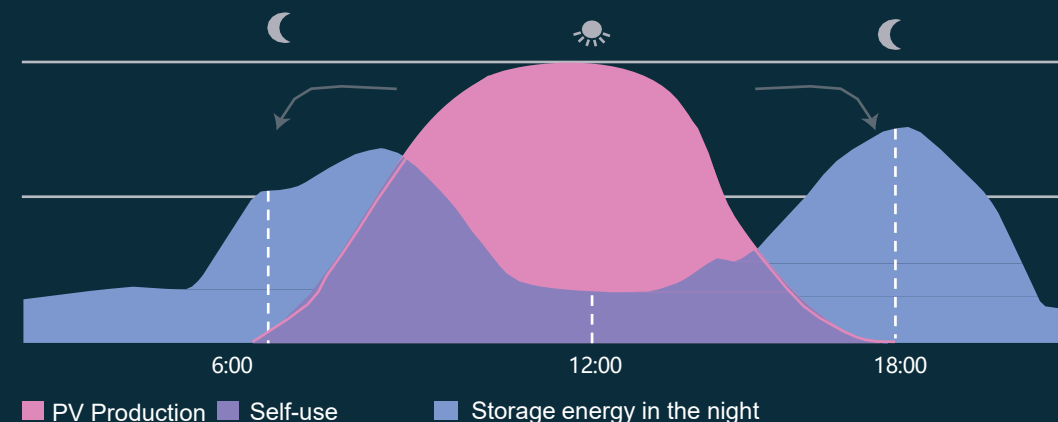
Working Mode

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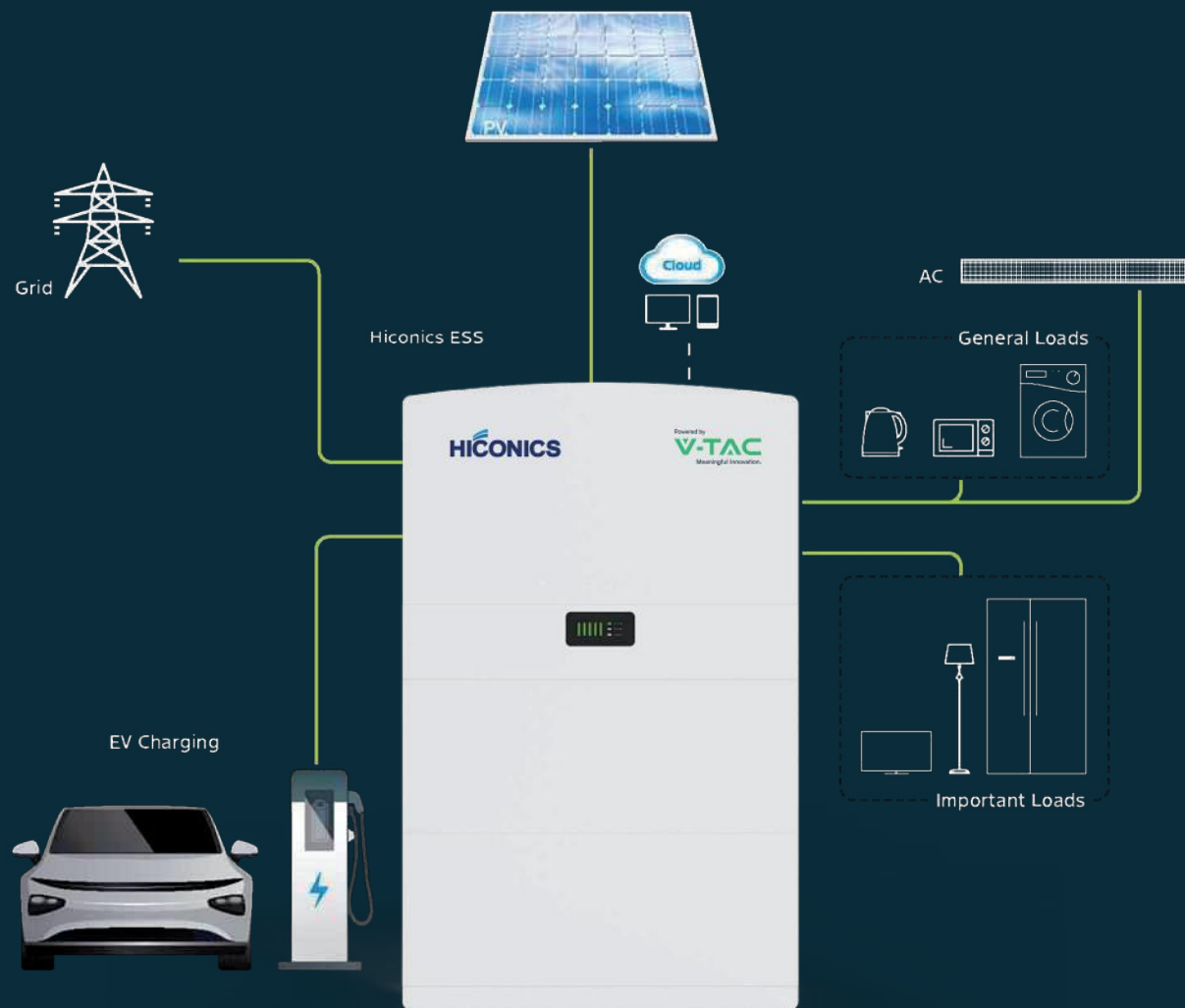
Maximize the use of photovoltaics, prioritize the use of solar energy, and store surplus power for nighttime use.



Working Mode

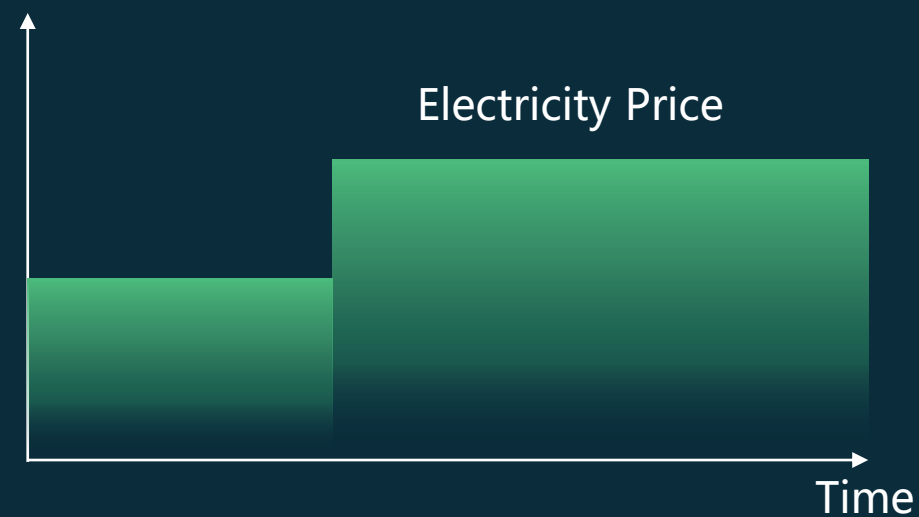
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Low electric price: Battery charge
High electric price: Battery discharge

Storing low voltage power for use during times of high electricity costs.

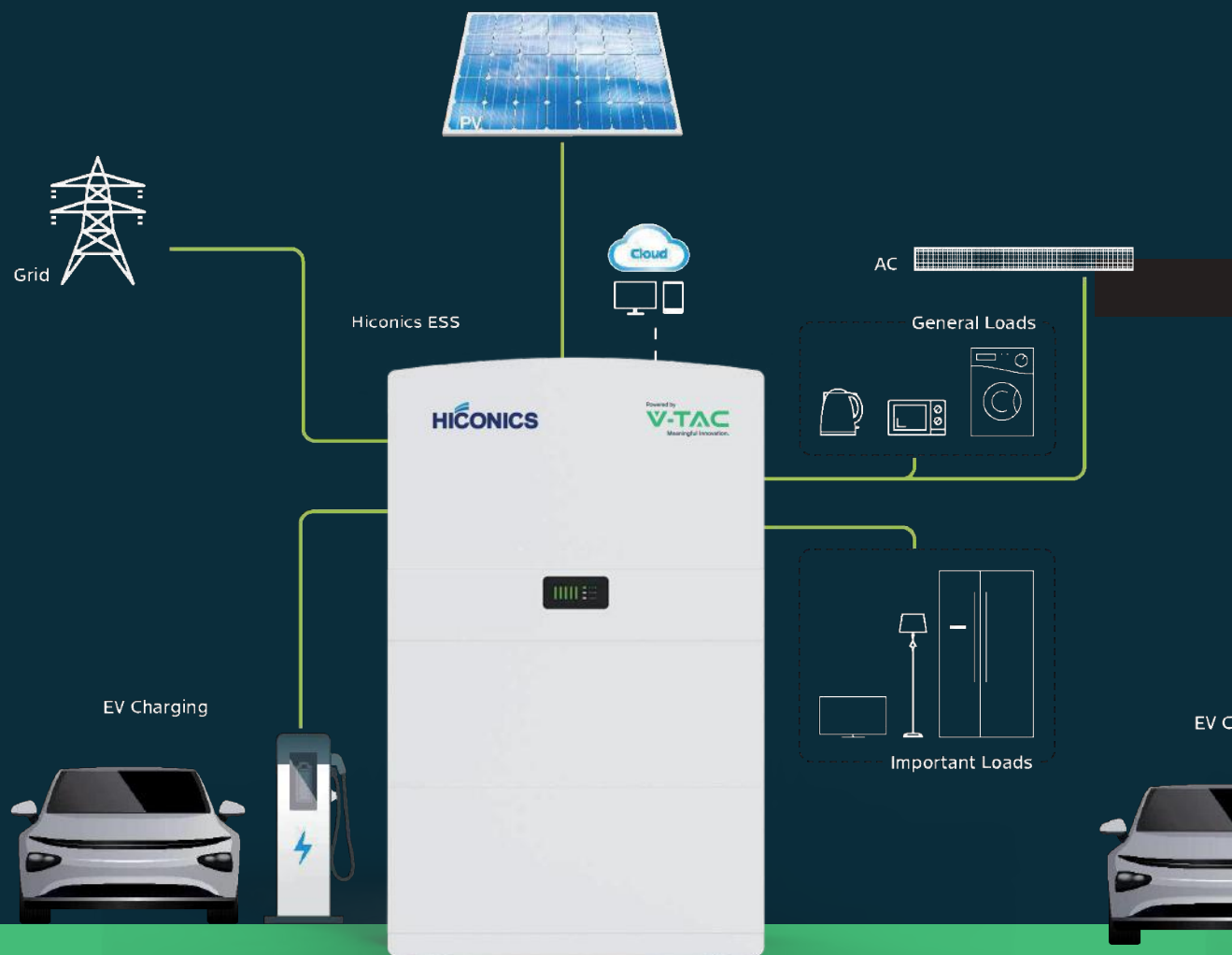


Working Mode

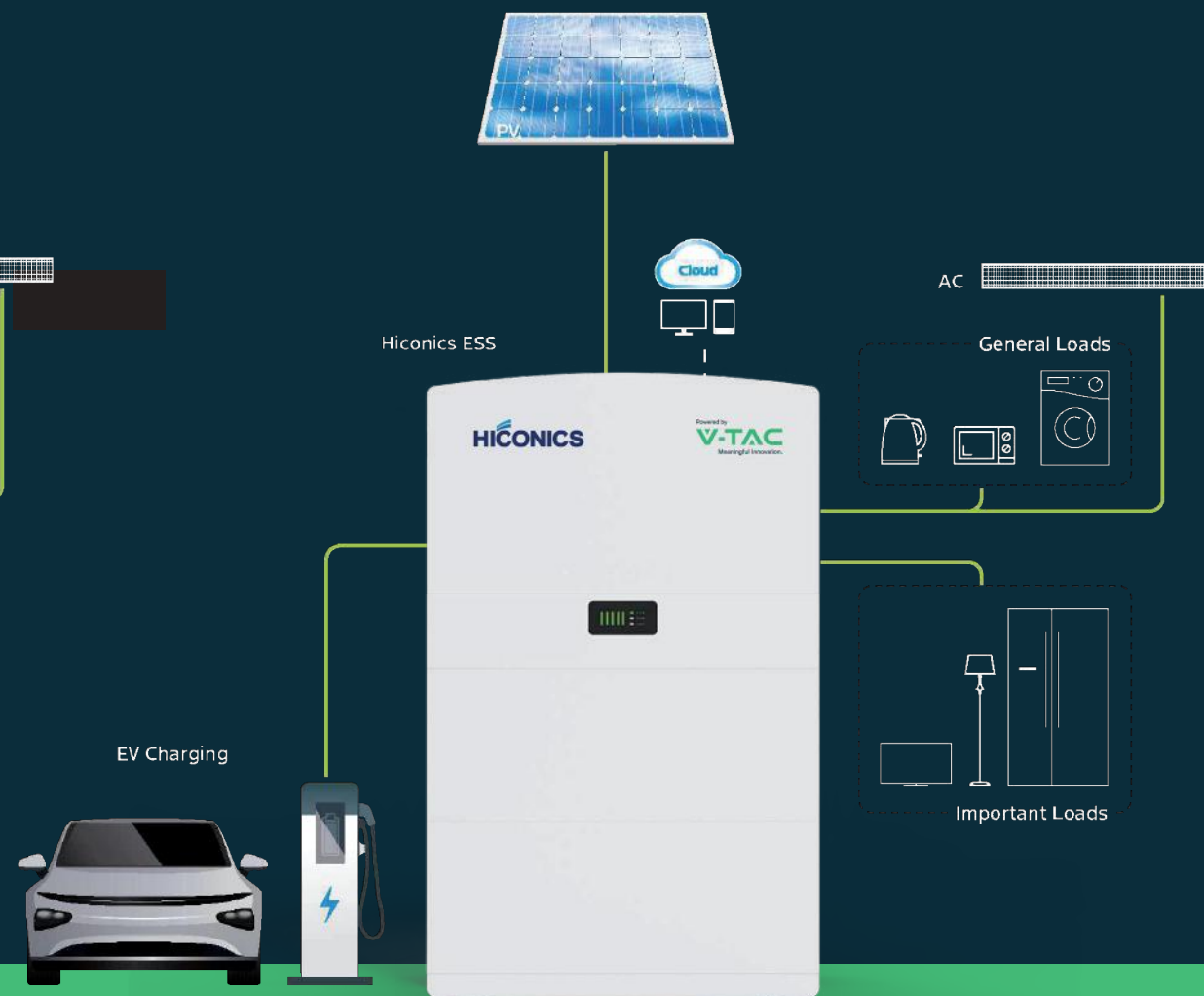
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Mode 3——BATTERY PRIORITY



Mode 4——EPS



Working Mode



Heat absorption from the air
No exhaust emissions



Energy & electricity-saving:
1 kWh power → 3.9kWh heat energy



Water & electricity separation
without the risk of leakage



Large capacity & plenty of hot water



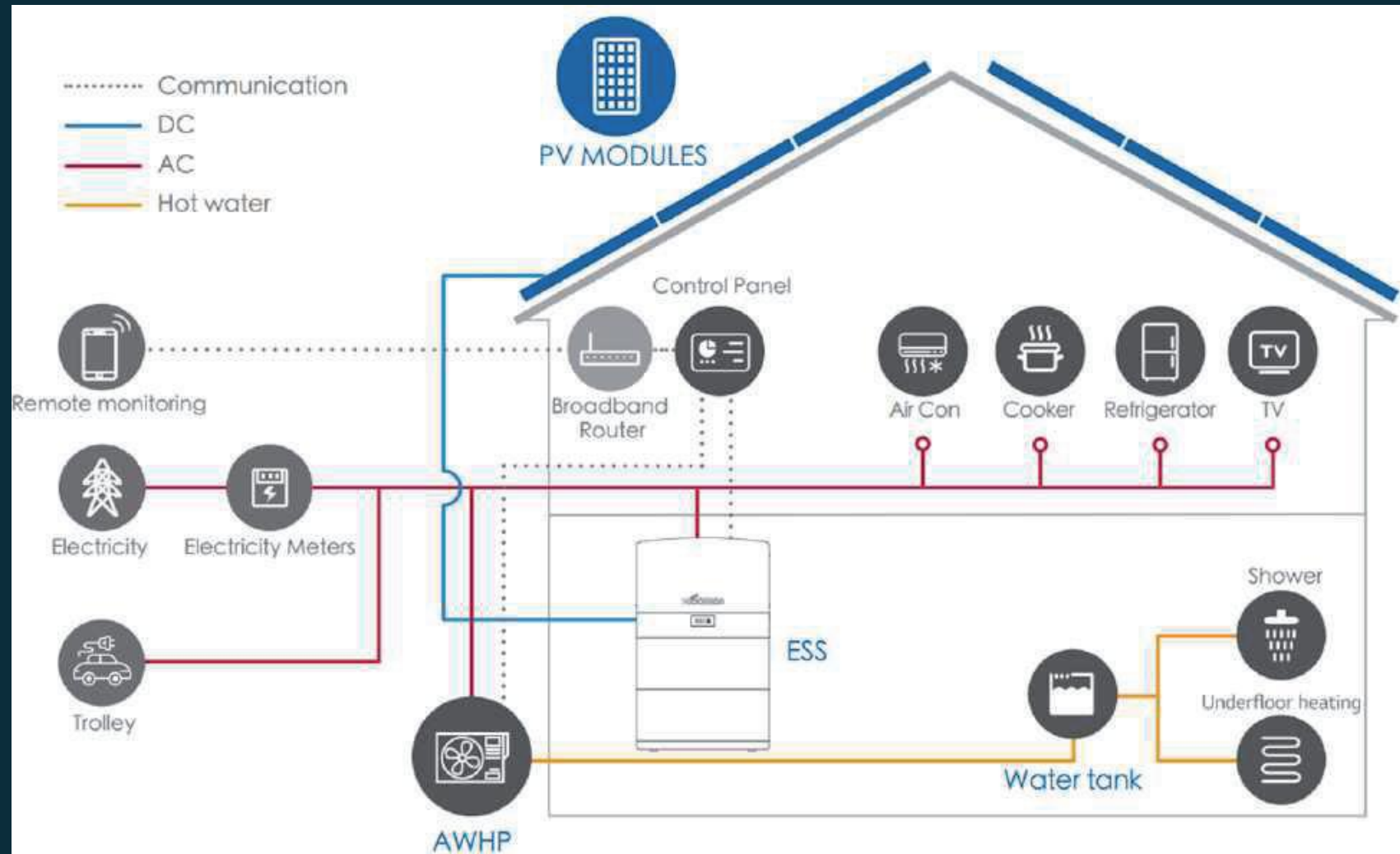
Precise temperature control,
stable water temperature & pressure



Home hybrid energy control



Low noise level less than 49dB



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Our Service

Perfect service system



Our positioning

Being the trustworthy, constant manufacturing and R&D center in China.



Manufacturing

- Ensuring production capacity



R&D

- Meet the demand of customized design
- Professional R&D team



Pre-sales Support

- Pre-sales support
- Market information sharing
- Regular product training
- Marketing material co-design



After-sales support

- Local distribution
- Online remote service
- On-site service

Our Service

Manufacturing system

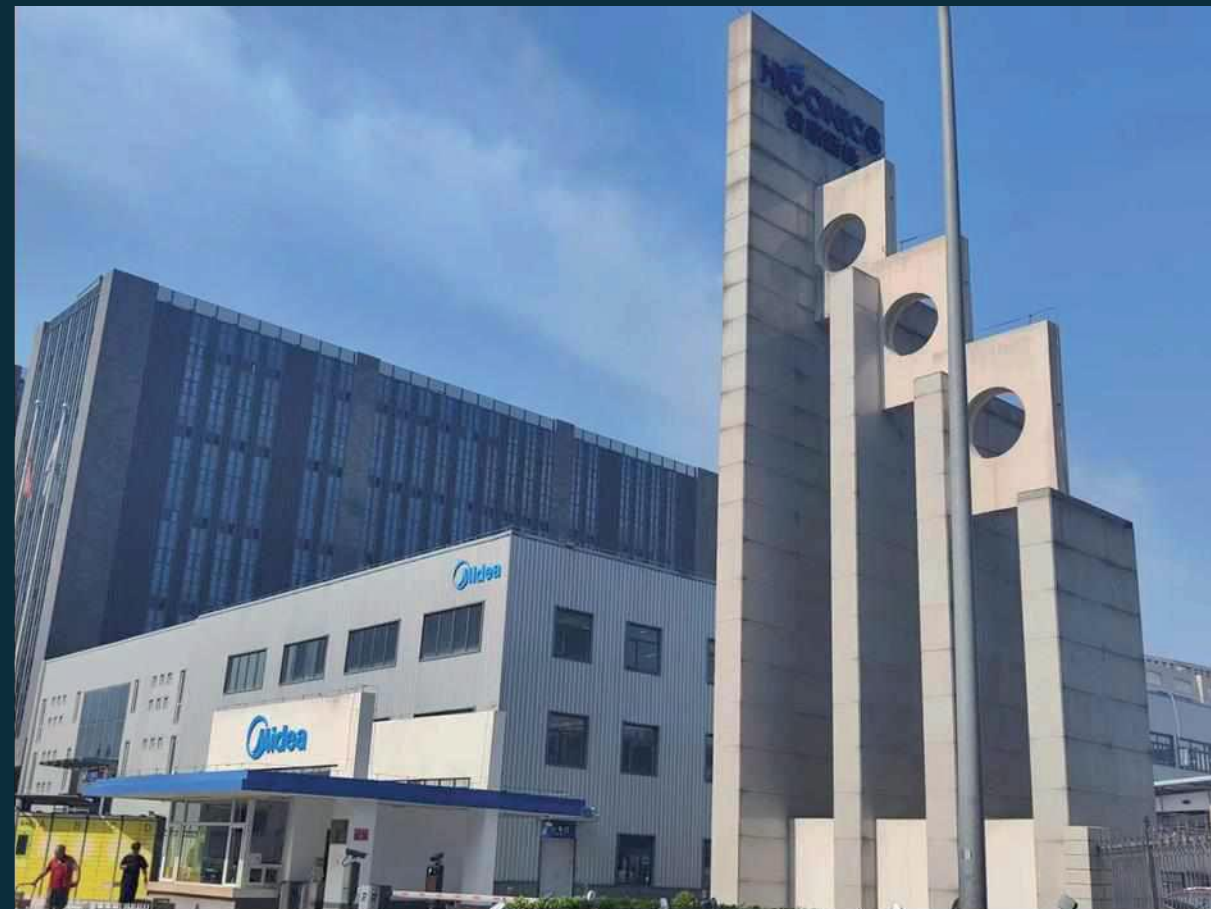
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PACK production line
(annual production capacity: **100MWh**)



PCS production line
(annual production capacity: up to **30,000** sets)



Our Service

Consistent service, meet the multi-level demand of customers
Independent R&D and technology innovation

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Electronic Power
Institute of Midea
Industrial Technology
Research Institute

Midea Central
Research Institute



Elite Team
Beijing, Shanghai

Green Energy
Research Institute

Hiconics' R&D team

Leading R&D testing equipment



Yokogawa
oscilloscope



TEKTRONIX
oscilloscope



Programmable
electronic load meter



High voltage DC
power



Constant
temperature and
humidity chamber



Chroma power grid
simulator



Chroma programmable
DC power



Yokogawa power
meter

Pre-sales support

Consistent service, meet the multi-level demand of customers



Technical Support

Coordinate the technology communication between the internal team and customers and provide technology support throughout the project.



Customer-oriented, provide value-added service, and create long-term value for customers.

Product Training

Regular online training for distributors.

Market information sharing

Dig into market including usage scenario, product value, technology trend, and have the information shared.

Marketing material co-design

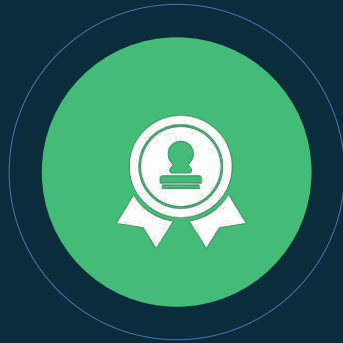
Complete and co-design product data, manual, promotional brochure

After-sales service and logistics system

Consistent service, meet the multi-level demand of customers

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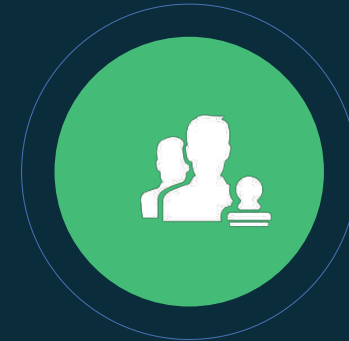
Intelligent warehousing

Building up Europe logistics system, one-stop supply of equipment and accessories to shorten delivery time. 2 months without warehouse fee for major account.



Remote support

Online remote support, discover field problems via collection sticks. Based on demand of customers and partners, provide support within 24 hours.



Local after-sales team

Local after-sales team from Midea will be able to provide onsite technology support and build a training center for product installation and after-sales.

Fast, flexible and accurate response to maximize customer personalized needs.

THANKS

