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WE DO MORE THAN
STORE ENERGY
WE MAKE IT **SMART**

OUR VISION

- Become a world-leading green energy storage solution and service provider.
- Make clean energy accessible to 100 million people in 10 years.

01 OUR STORY

02 CORE STRATEGY

03 ALPHA HOME

04 ALPHA C&I and UTILITY

01

OUR STORY

Make clean energy
accessible to everyone
in the world.



Who We Are

AlphaESS is a leading global green energy storage solution and service provider. With expertise in BMS, EMS, PCS, system integration, and cloud monitoring, we excel in providing tailored solutions for a wide range of applications, including residential, commercial & industrial, and utility-scale projects.

AlphaESS has 60+ subsidiaries and branches worldwide, including China, Germany, Australia, Italy, the United Kingdom, South Africa, Singapore, Malaysia, and more. With over 300,000 systems actively running across 130+ countries, we have built a comprehensive global supply chain and logistics network.

 **130 +**
Countries & Regions

 **300,000 +**
Systems Installed Globally

 **13 +**
Years of Industry Experience

 **250 +**
Patents in the ESS field



TOP 1

Residential Energy Storage
Provider in Australia



TOP 1

Residential Energy Storage
Provider in the Netherlands



TOP 5

Residential Energy Storage
Provider in Germany



TOP 5

Global Residential
Storage Provider



Tier 1 Energy Storage
Manufacturer
by BloombergNEF 2025



The Most Recommended
Brand in Germany



**GOOD
DESIGN
AWARD**

iF & Reddot & G-mark
Design Award



TOP BRAND PV
(STORAGE & INVERTERS)

Our History



Global Presence



400+

Service Locations Worldwide

Key Networks

- Asia: China, Singapore, Malaysia, The Philippines, Myanmar, Indonesia, Uzbekistan, Japan, Thailand, Vietnam, Cambodia, Israel, Iraq
- Europe: Germany, United Kingdom, Italy, Benelux, France, Czech Republic, Spain, Estonia, Lithuania, Slovenia, Austria, Switzerland, Romania, Iberia
- Oceania: Australia, New Zealand, Fiji, New Caledonia, Tonga
- Americas: United States, Guam, Hawaii, Colombia, Peru, Chile, Brazil
- Africa: South Africa, Kenya, Nigeria, Ghana, Sierra Leone, Uganda, Mauritania

60+

Subsidiaries

5

Production Centers

China: Nantong (Tongzhou & Qidong), Ulanqab, Kunming
Malaysia: Kulim



5

R&D Centers

Nantong, Suzhou, Nanjing, Tianjin, Xi'an



Headquarters



Subsidiary



Production Center

*China: Nantong (Tongzhou & Qidong), Suzhou, Nanjing, Ulanqab, Beijing, Tianjin, Shenzhen, Guangzhou, Xi'an, Kunming, etc.

Localization

Local Service Experience through a Global Network

We strive to provide our customers with seamless end-to-end services through our comprehensive localized service network, which offers convenient services including demand analysis, customized solutions, spare parts supply, professional training, warehouse management, fault analysis, and efficient maintenance. Our dedication lies in maximizing the utilization of our customers' systems and ensuring an exceptional service experience.



Remote Maintenance



Troubleshooting



Installation Training



Technical Support



Automatic Updates



Warranty Service

Core Technologies

AlphaESS masters core technologies including BMS, EMS, system integration and the monitoring platform. Its product lines cover micro, residential, commercial and industrial, and utility-scale energy storage, offering ESS solutions ranging from 1 kilowatt to hundreds of megawatts for the global market.

5 Major Technical Areas



Battery Management System (BMS)



Energy Management System (EMS)



Power Conversion System (PCS)



Monitoring Platform



System Integration

4 Major Product Lines



Utility-scale Energy Storage Systems



Commercial and Industrial Energy Storage Systems



Residential Energy Storage Systems



Micro Energy Storage Systems

02

CORE STRATEGY



01

Smart Energy

CORE

02

Safe and Reliable

03

Service Leading

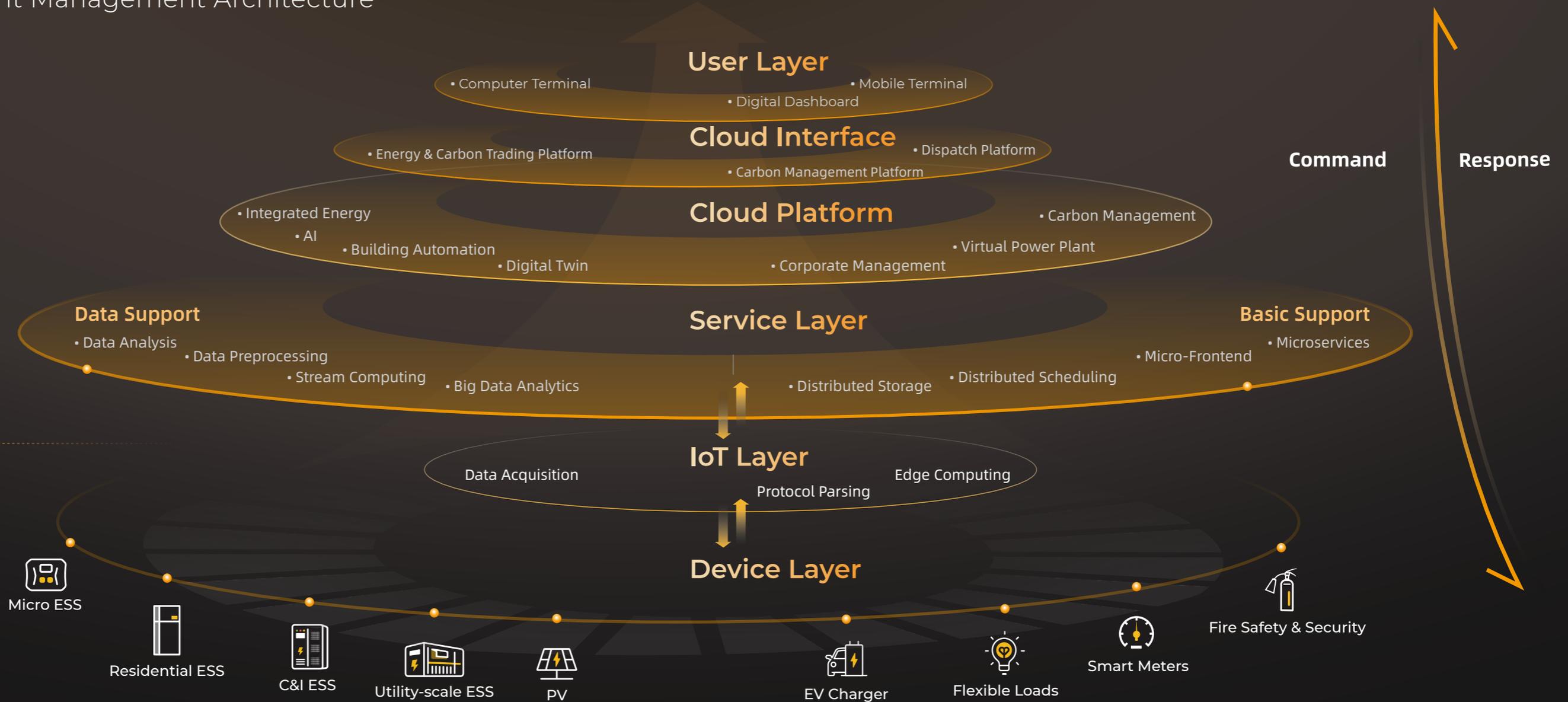
Smart Energy

Digital Intelligent Management Architecture

Cloud

EMS

Device



Safe and Reliable

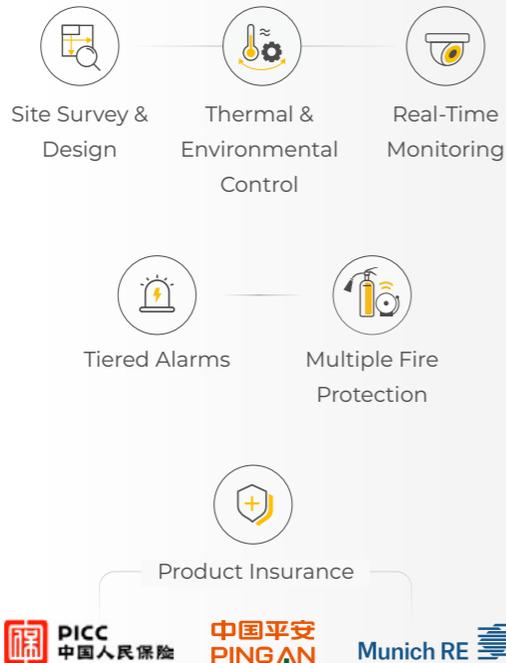
01 Material Safety

Secure the energy storage

Only first class, reliable **LiFePO₄** cell will be used

02 System Safety

Secure the quality and performance



03 Workplace Safety

Secure the green, smart, and sustainable future

- Integrate safety controls with intelligent devices to minimize human operation risks and enhance safe production.
- EHS in practice with everyone involved: trainings, accountability, and occupational health
- Less emission with clean and efficient production

04 Testing Safety

Leave no stone unturned

Battery Safety

- Compression Crash Tests
- Overcharge and Overdischarge Tests
- Short-Circuit Tests

EMS Safety

- EMC Tests
- Fault Waveform Recording Tests
- Hardware-in-loop Simulation Tests

Structural Safety

- Structural Strength Verification
- System Structural Simulation
- Structural Design Short/Long-term Testing Verification

Electrical Safety

- Short-Circuit Tests
- Overload Temperature Rise Tests
- Insulation Withstand Voltage Tests

Fire Safety

- Thermal Runaway and Propagation Tests
- Multi-dimensional Perception Detection Tests
- UL9540A Certification Tests

Environmental Reliability

- Low Pressure Tests
- Salt Spray Tests
- Temperature Shock & Humidity Cycling Tests

Service Leading



One-Stop Customer Service

Focusing on products, technology, customer relations, sustainability, and internationalization, we provide personalized and comprehensive one-stop service to ensure customers have an excellent experience throughout the purchase, use, and maintenance of our energy storage systems.



Customer Service Package — AlphaCare

The AlphaCare package is tailored for our end customers and partners, providing comprehensive services in technical support, financing plan, marketing etc..

- **Technical Support:**

Dedicated customer service from start to finish with our OSC (Online Service Center).

- **Marketing Support:**

Impactful co-branded initiatives to maximize brand exposure and early product upgrade info to stay competitive.

- **AlphaCloud:**

A lifetime-free energy management and monitoring platform for all AlphaESS systems.

- **AlphaPartner:**

Exclusive service platform for AlphaESS' partners including distributors and installers.



- **Low-Carbon Smart Park Platform**



*Service items may vary by country/region, please contact your local AlphaESS business manager for further details.

Online Service Center
(Coming Soon)

AlphaPartner
(Web + App)

AlphaCloud
(Web + App)

03

ALPHA HOME

- All-in-One Energy Storage System
- PV-Storage-Charging Solution
- Balcony Energy Storage System
- Portable Power Station

Residential Series

AlphaESS provides energy storage solutions ranging from 1 to 20 kW for households. With the AlphaCloud monitoring platform, users can fully enjoy the economic benefits and convenience of smart energy management.



SMILE Product Series

- S**tronger Output
- M**odular Configuration
- I**ntelligent Management
- L**ong Lifespan
- E**fficient Operation



Easy Installation

- All-in-One Design
- Plug & Play Wiring System
- Built-in SPD



Flexible Expansion

- Modular System
- Bypass for Faulty Battery
- No Need for SOC Calibration



Cutting-Edge VPP

- Tailored API for Dynamic VPP Scheduling
- Fast FCAS
- Global Compatibility*

*Leading the Australian VPP market; compliant with European Commission Regulations (EU) 2017/1485, 2016/631, 2016/1388, 2017/1485 for Frequency Containment Reserves

All-in-One Energy Storage System

First-Generation

2014-2021



Next-Level Innovation

2022-2025

2023-2025



Your Almighty Knight

SMILE-G3 Series

2025



Stackable Innovation for Quick Setup

SMILE-M5 Series

2025



Tailored for Weak-Grid Regions

SMILE-X Series (Pre-release)

SMILE-G3 Series

YOUR ALMIGHTY KNIGHT

SMILE-G3-S3.6 / S5 / B5 / S8

SMILE-G3-T4 / 5 / 6 / 8 / 10

SMILE-G3-T12 / 15 / 20

SMILE-G3 series offers single-phase solutions ranging from 3.6 to 8 kW and three-phase solutions from 4 to 20 kW for home energy storage, catering to both AC and DC coupled scenarios. It covers a comprehensive range of needs including self-consumption for residential homes, peak-valley arbitrage, dual power supply with diesel generators, VPP (Virtual Power Plant) scheduling, solar storage charging, and solar storage heating.



GOOD DESIGN AWARD



reddot design award

SMILE-G3



HIGHER EFFICIENCY BRINGING MORE PROFITS



SMILE-G3-S3.6 / S5 / B5

Single Phase: 3.6 / 5 kW

Capacity: 3.8 - 37.2 kWh

Datasheet



SMILE-G3-S8

8 kW

Capacity: 4.0 - 38.4 kWh



SMILE-G3-T4 / 5 / 6 / 8 / 10

Three Phase: 4 / 5 / 6 / 8 / 10 kW

Capacity: 3.8 - 55.8 kWh

Datasheet



SMILE-G3-T12 / 15 / 20

Three Phase: 12 / 15 / 20 kW

Capacity: 7.6 - 55.8 kWh

Datasheet



More Profits

- 200% PV Input
- MPPT Shadow Scanning
- High Voltage Battery with Higher



Energy Independence

- Seamless On/Off-Grid Switchover < 20ms
- UPS Peak Overloading up to 200%
- Dual Power Supply (Grid & Generator)



Smart IoT

- VPP-Ready with Very Fast FCAS
- Dynamic Tariff Ready
- PV-Storage-Charging Solution

Available in: Australia, Germany, UK, Italy, Belgium, Czech, The Philippines, Thailand, China, Middle East, Africa, Latin America, etc.

EARN MORE FROM YOUR SMART ENERGY

With integrated partners, SMILE G3 supports dynamic tariffs and virtual powerplant programs-turning your battery into a profit engine.

- **Self-Consumption**
Store surplus solar power for use at night.
- **DynamicTariff**
Automatically store energy when rates are low and discharge during peak price periods.
- **ElectricityTrading**
Earn extra revenue by participating in the electricity market (VPP).



EV CHARGER

PV-Storage-Charging Solution



SMILE-G3-EVCS7

Single Phase / 7 kW

SMILE-G3-EVCT11

Three Phase / 11 kW



User-Friendly

- Easy installation
- High compatibility
- Keycard or AlphaCloud launching for proprietary identification
- 7m-long charging cable



Higher Profits

- 100% green energy consumption
- Subsidy available
- Lifetime-free upgrading online



Multiple Charging Modes

- Green mode: EV charged only by solar energy or battery
- Fast mode: First priority for EV charging
- ECO mode: Customized timers and fixed power



Datasheet



Available in: EU, UK

SMILE-M5 Series

STACKABLE DESIGN, NEW EXPERIENCE



SMILE-M5-S
SMILE-M5-B

System Power

5 kw

Single Phase

Battery Module

5 kWh, 51.2V, 100Ah

13.9 kWh, 48V, 314Ah

System Configuration

5-30 kWh

13.9-55.6 kWh

Warranty

10 Years Warranty



High Returns, Full Utilization

- 100% Depth of Discharge
- 200% PV Oversizing



Fast & Easy Setup

- Stackable Design, 50% faster install
- 3-5 min One-Touch Commissioning



Smart Safety Protection

- Aerosol Fire Defense
- 10+ Hardware & software Protections



Reliable & Durable

- IP65 Dust & Water Resistant
- 10-Year Warranty

Available in: Australia, UK, China

Datasheet



PIONEER OF ALL-IN-ONE SYSTEM

SMILE5 has made green living a reality for **35,000+** families worldwide

with **560+** MWh total installed capacity



YOUR BEST SOLUTION FOR RETROFITTING PV SYSTEM

SMILE-B3-Plus

Single Phase: 3 kW

Capacity: 5.04 - 30.24 kWh

- Built-in Battery & Inverter
- Space-saving & Light Weight
- High Compatibility with Solar Systems

Available in: Australia, UK, China



Datasheet



ALPHA CLOUD

MONITORING PLATFORM

AlphaCloud is a lifetime-free platform (for App and Web) where you can easily manage every device connected to AlphaESS systems. As soon as a device is plugged in, AlphaCloud reads its information and prepares all the possible configurations for you, so that you can learn about or change your energy plan anytime, anywhere.



See every watt.

Understand every save.



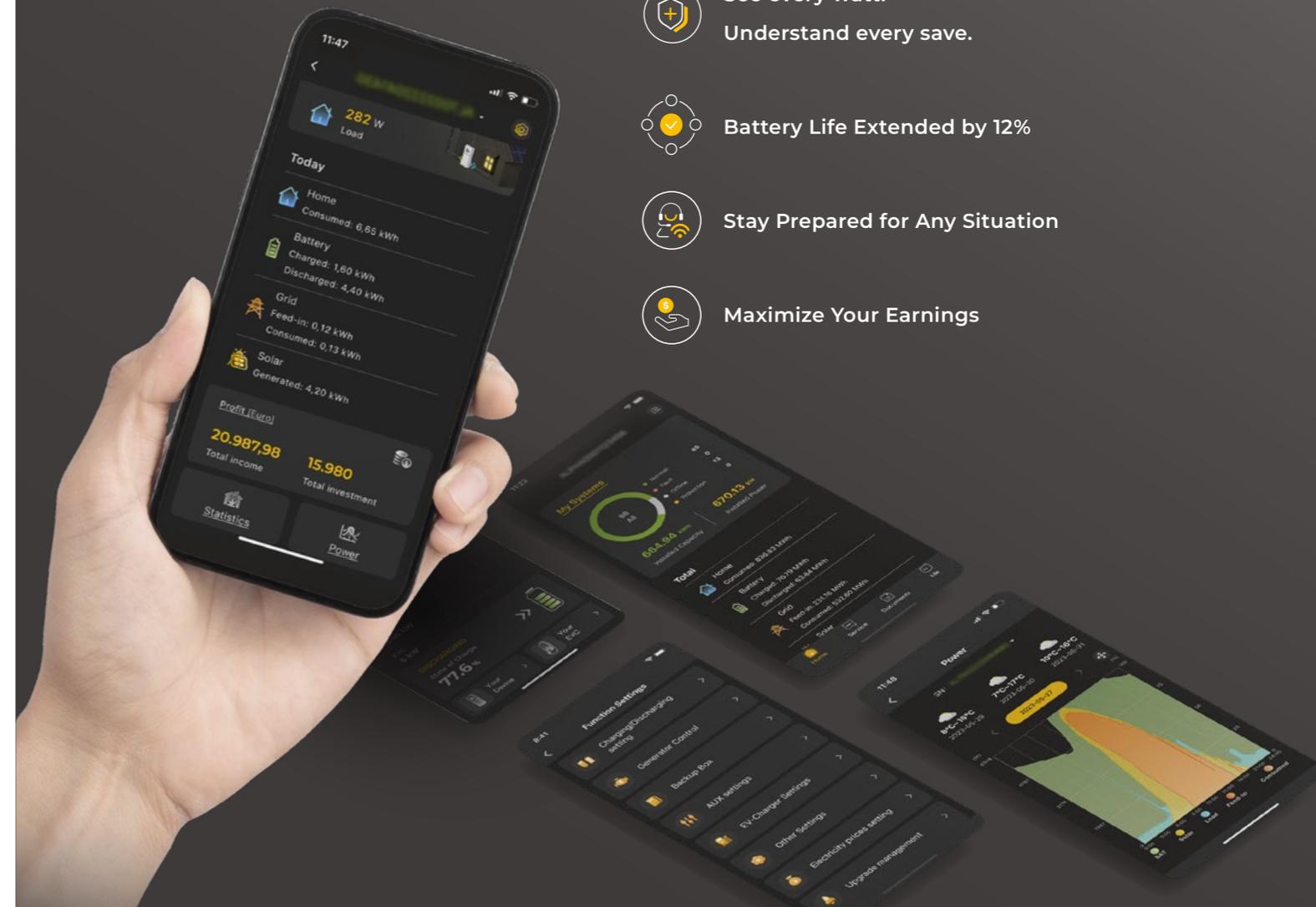
Battery Life Extended by 12%



Stay Prepared for Any Situation



Maximize Your Earnings



BALCONY SOLAR ENERGY SYSTEM

Plug into a greener lifestyle, one balcony at a time

Discover a smarter way to power your home with the AlphaESS Vitapower Series. Perfect for urban living, this innovative system fits seamlessly on your balcony, storing enough energy to keep your lights on and your devices charged during peak hours. With its sleek, all-in-one design and effortless plug-and-play setup, you can start saving on electricity bills in minutes—no professional help needed. Harness clean, renewable energy, shrink your carbon footprint, and take control of your energy usage, all from the comfort of your home !



VitaPower VT1000

1kW/2kW · 1-6kWh

All-in-One Design:

Built-in Battery, Micro-Inverter, DC Power Controller, and LCD

Versatile Applications:

On-Grid and Off-Grid

Plug & Play

Stackable Expansion

Safe & Reliable:

Durable Metal Casing & Extended Warranty Service



Battery Parameters

Capacity	1024 Wh
Battery Chemistry	LiFePO ₄
Ingress Protection	IP65

- UPS-level off-grid switching time <10ms
- Support AC-coupled in balcony microinverter systems
- On-grid and off-grid applications

Available in: Germany

Brochure





04

ALPHA C&I and Utility

EXPERT FOR ALL APPLICATION SCENARIOS

Generation Side

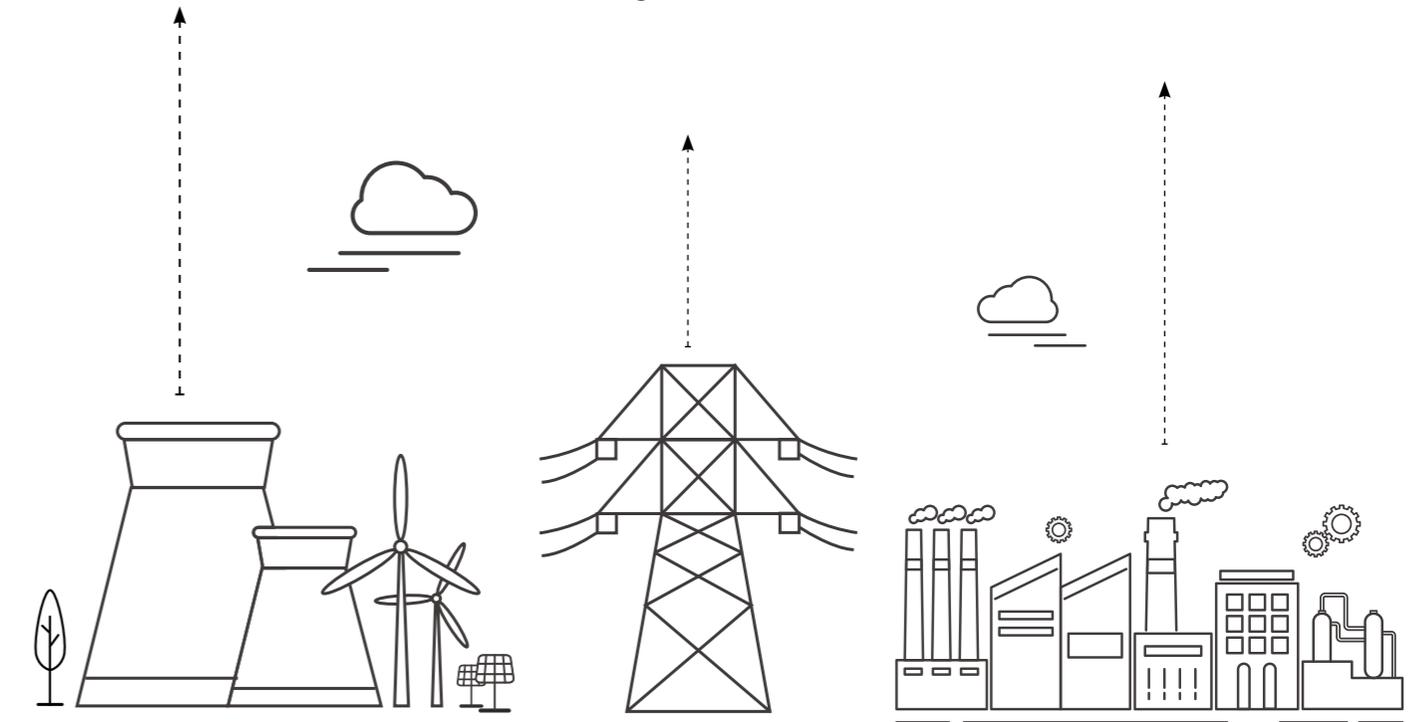
- Smooth Wind & PV Power Output
- Maximizing Wind & PV Utilization
- Thermal Power Storage Frequency Modulation
- Active Power Control and Reactive Power Compensation

Network Side

- Peak Shaving and Frequency Modulation
- Improving Power Quality and System Reliability
- Maintaining Voltage Stability of the Transmission Network
- Extending the Lifespan of Transmission Equipment
- Alleviating Peak Load Demand

Behind-the-Meter

- Peak-Valley Arbitrage
- Backup Power
- Dynamic Expansion
- Virtual Power Plant (VPP)
- Microgrid
- Ancillary Services



MASTER OF ADAPTATION



Applicable Terrains



Desert



Gobi Desert



Plain



Mountain



Plateau



Coastline



Applicable Climates



Hot & Dry



Cold & Humid



Thunderstorms



Heavy Snowfall



Salt Fog



Sandstorms

LARGE C&I PROJECT INVESTMENT MODEL

Client Self-Investment

AlphaESS is responsible for project construction and technical support; the ownership of the project and all profits belongs to the client.



Third-party Investment / EMC (Energy Management Contract)

The ownership of the project belongs to the third-party investor, while the user client, with zero investment and operating costs, share peak-valley arbitrage profits with the investor, thereby reducing energy loss and saving electricity costs.



AlphaESS Investment

AlphaESS invests and provides EPC contract, energy storage systems, and professional intelligent operation and maintenance services.





CREATING VALUE FOR OUR CLIENTS

- Comprehensive Energy Solutions for the Full Lifecycle
- One-Stop Customized Service
- Integrated Management



Full Lifecycle Service



Technical Analysis

- Preliminary Data Collection
- On-Site Survey
- Equipment Selection
- Initial Project Design
- Technical Proposal Preparation



Investment Analysis

- Expert Proposal Analysis
- Economic Assessment
- Establish Development Intentions
- Signing of Relevant Agreements



Supporting Products

- Core R&D Team
- AlphaESS Core C&I Products
- System Commissioning and Testing
- Product Shipment and Delivery



Professional Construction

- Lean Construction
- Professional Debugging
- On-Grid Operation
- Compliant with Industry Standards and Specifications
- Low-Carbon Smart Park Platform Management



Intelligent Operation & Maintenance

- Software R&D Team
- Operation Data Statistics and Optimization
- Local Offices for Rapid Maintenance
- Intelligent Monitoring of System Operation
- Electricity Cost and Revenue Calculation

AI Digitalized & Visualized Smart Energy Management

Low-Carbon Smart Park Platform

The software platform functions as a digital hub and control panel for everything within an industrial park. Its AI algorithms ensure neat data analysis and informed decision-making, which increases the revenue of energy projects, reduces energy consumption, and facilitates the maintenance of equipment.



Main Customers:

- Industrial Enterprises
- Industrial Real Estate / O&M Investors
- District / County Government
- Energy Projects / O&M Investors



Innovative Technologies:

- Distributed Energy Storage Virtual Power Plant Technology
- Industrial Park / Plant Digital Twin
- Integrated Platform
- Integrated Alarm System for All Facilities
- Integrated Surveillance Cameras / Access Control / Fire Protection System
- Integrated System Management
- Collaborative System Update and Optimization



Targeted Pain Points:

- Construction without integrated planning.
- Multi-platform operation and maintenance in parks / factories.
- Efficient operation and maintenance management, revenue and cost saving of multi-projects.
- By providing an integrated platform covering all the issues above, AlphaESS provides the best smart park management solution for business owners.

ALPHA C&I and Utility



Alpha C&I and Utility Solutions

For 30kW+ applications, AlphaESS C&I and utility-scale solutions can work in sync with wind and solar resources, significantly improving the self-consumption rate of clean energy, smoothing out power supply-demand fluctuations. They can also be integrated with advanced technologies such as smart energy management platforms and the Internet of Things (IoT), facilitating the transformation of energy structure and providing crucial support for achieving carbon neutrality goals.



High Energy Density



Cell-Level Constant Temperature Control



Enhanced Electrical Protection



Intelligent Fire Protection

ALPHA C&I Solutions



StaX-M30/50

Commercial Power Residential Ease

StaX is a compact, modular commercial energy storage system designed for easy installation and flexible expansion. With silent, wiring-free operation and a stackable design, it delivers reliable power for small businesses—anytime, anywhere.

- **Designed to Save, From Time to Cost**

- No Heavy Truck Needed, Skip the Crane, Easy Handling
- Easy Access in Tight Spaces, Stack and Go

- **Flexible Storage, Optimized for Every Project**

- 12 kWh Modular Design for Precise Scaling
- Mix and Expand with Ease
- IP66 & Battery Heating (-20°C - 50 °C)

- **Maximize Your Solar Energy, Reduce Energy Costs**

- AC+DC Couple
- 200% PV overloading for max self-Consumption
- Actively balances each module for maximize capacity and extending lifespan
- Automatically isolates faulty modules without system shutdown
- Support dynamic tariff and electricity trading





Model	StaX-M30/50
Rated Power	30 kW / 50 kW
Rated Energy	60.25 - 216.9 kWh
Ingress Protection	IP66
Battery Type	LiFePO ₄
Fire Protection	Aerosol, Explosion Relief
System Power	160%, 10s overload capacity 100% unbalance output
Warranty	5 years for system 10 years for battery
PV	3 MPPT 6 Strings / 4MPPT 8 string 40A input current 200% PV oversizing
Battery Module	M38314-S



- 70% Faster Installation: No battery rack or wiring needed — just stack and start
- Self-optimizing Batteries: Hassle-free Maintenance
- Easy Expansion: Free you from time-consuming capacity balancing
- Boost Lifetime Output: Automated diagnostics & calibration for SOC consistency
- 200% PV input to boost profits

Datasheet



Air-Cooled All-in-One Cabinet

Model	STORION-H30/H50-G3
Rated Power	30/50 kW
Rated Energy	72.3~120.5 kWh, Expandable up to 241 kWh (H30-G3) 96.4~120.5 kWh, Expandable up to 241 kWh (H50-G3)
Ingress Protection	IP20
Battery Type	LiFePO ₄
Inverter Couple	Hybrid (AC+DC)
Fire Protection	Aerosol + Smoke / Temperature Detection
Battery Module	M77314-S



- All-in-One Design
- Optimal for Multi-Direction Roof
- Multiple System Operation Monitoring
- Max 10 systems in on-grid parallel, 4 systems in off-grid parallel



Datasheet



Model	STORION-G2-H50
Rated Power	50 kW
Rated Energy	6.9 kWh Battery Module 55.29 / 110.59 kWh 8.0 kWh Battery Module 104.8 / 209.6 kWh
Ingress Protection	IP20
Battery Type	LiFePO ₄
Fire Protection	Smoke / Temperature
Battery Module	M7790-S / M38210-SC



- All in One Design
- Support Multi-Direction Roof
- Multiple System Operation Monitoring
- Max 5 systems in on-grid parallel, 3 systems in off-grid parallel

Datasheet



Liquid-Cooled All-in-One Cabinet

Model	STORION-LC-TB125
Rated Power	125 kW
Rated Energy	261 kWh
Ingress Protection	IP55
Battery Type	LiFePO ₄
Fire Protection	Aerosol + Sprinkler
Battery Module	M166314-52S-EX



- All-in-one Design
- Easily Set Function Parameters
- Safer Intelligent Fire Protection System
- Various Operating Modes Available For Selection
- Seamless switching to backup(≤ 20ms with STS Cabinet)



Expansion Battery Cluster (Optional)

Model	STORION-LC261
Rated Charging/Discharging Power	130.6 kW(0.5P)
Rated Energy	261 kWh per Cabinet
Battery Cluster Voltage Range	702 - 936 V
Battery Rack	5 Modules in series
Fire Protection	Aerosol + Sprinkler+ Smoke / Temperature Detection
Battery Module	M166314-52S-EX



Datasheet



Model	STORION-LC-H125
Rated Power	125 kW
Rated Energy	261 kWh
Ingress Protection	IP55
Battery Type	LiFePO ₄
Fire Protection	Aerosol + Sprinkler
Battery Module	M166314-S



- All-in-One Design
- Easily Set Function Parameters
- Seamless Switching to backup
- 200% PV input oversizing
- Safer Intelligent Fire Protection System
- System-wide Temperature Difference within 3°C

Datasheet



Model	STORION-LC-372
Rated Energy	372.7 kWh
Ingress Protection	IP55
Battery Type	LiFePO ₄
Fire Protection	Aerosol + Sprinkler
Battery Module	M166280-S



- Flexible Site Layout
- High Energy Density
- Dehumidification Design
- High-Level System Integration
- Intelligent Heat Management Strategy
- Safer Dual Fire Fighting and Explosion Deflation Solutions

Datasheet



Utility Solutions



Model	STORION-TB250	STORION-TB500
Rated Power	250 kW	500 kW
Rated Energy	235.1-2351.2 kWh	
Ingress Protection	Container: IP54	Cabinet: IP55
Battery Type	LiFePO4	
Fire Protection	Aerosol	

- Easily Installation
- Seamless Switching (<20ms)
- Easily Set Function Parameters
- Intelligent liquid cooling temperature control
- Various Operating Modes Available For Selection

Datasheet



5MWh

Liquid-Cooled Battery Container



Model	AlphaCS-H20-DC-LC 2.0
Rated Energy	5015.9 kWh
Ingress Protection	IP55
Charge/Discharge Rate	0.5 P
Battery Type	LiFePO ₄
Fire Protection	Perfluorohexanone + Water
Battery Module	M166314-S  M332314-104S-CN 

- Multiple fire protection systems, battery pack-level suppression
- Enhanced electrical protection to mitigate short-circuit risks
- Liquid cooling design, 20% less energy loss
- Compatible with various PCS and EMS
- Cloud-based data management, remote troubleshooting
- 34% increase in energy density, reducing upfront investment
- Two options available: back-to-back or double-sided doors, adaptable to different station layouts

Datasheet



Available in: China

1500V

Liquid-Cooled Battery Container



Model	Aster 5000	Aster 3720
Rated Energy	5015.9 kWh	3727.3 kWh
Ingress Protection	IP55	
Charge/Discharge Rate	0.5 P	
Battery Type	LiFePO ₄	
Fire Protection	Aerosol + Sprinkler	Aerosol + Sprinkler (Optional: Perfluorohexanone)
Battery Module	M332314-104S-EX 	M166280-S 

- Low noise
- High energy density
- Multiple intelligent fire protection systems
- Flexible layout, supporting parallel connection
- Intelligent thermal management strategy
- External maintenance design, efficient and convenient

Datasheet



1000V

Liquid-Cooled Battery Container



Model	AlphaCS-H20-MEA-DC250	AlphaCS-H20-MEA-AC250/500
Rated Energy	Max. 1175.6 kWh	Max. 1410.7 kWh
Ingress Protection	IP54	
Charge/Discharge Rate	0.5P	
Battery Type	LiFePO ₄	
Fire Protection	Aerosol	
Battery Module	M166314-52S-EX	

- All-in-One Design
- Easily Installation
- Seamless Switching (<20ms)
- Flexible layout, supporting parallel connection

Datasheet



Available in: MEA

1000V

Liquid-Cooled Battery Container



Model	AlphaCS-H40-MEA-DC500	AlphaCS-H40-MEA-AC500/1000
Rated Energy	Max. 2351.2 kWh	
Ingress Protection	IP54	
Charge/Discharge Rate	0.5P	
Battery Type	LiFePO ₄	
Fire Protection	Aerosol	
Battery Module	M166314-52S-EX	

- Easily Set Function Parameters management strategy
- Intelligent liquid cooling temperature control
- Various Operating Modes Available For Selection

Available in: MEA

Datasheet



Industrial Battery Packs

Liquid-Cooled Battery

Battery Module	M166314-S (0.5C)
Rated Voltage	166.4 V
Rated Power / Rated Energy	26.1 kW / 52.2 kWh
Cycle Life	≥ 6000 (@ 25°C)
Operating Temperature Range	-30°C ~ 50°C
Available in: China	



Battery Module	M166280-S (0.5C)
Rated Voltage	166.4 V
Rated Power / Rated Energy	23.2 kW / 46.5 kWh
Cycle Life	≥ 6000 (@ 25°C)
Operating Temperature Range	-30°C ~ 50°C



Battery Module	M332314-104S(0.5C)
Rated Voltage	332.8 V
Rated Power / Rated Energy	52.2 kW / 104.4 kWh
Cycle Life	≥ 6000 (@ 25°C)
Operating Temperature Range	-30°C ~ 50°C



Air-Cooled Battery

Battery Module	M38210-SC (0.5C)	M38210-S (0.5C)	M7790-S (1C)
Rated Voltage	38.4 V		76.8 V
Rated Power / Rated Energy	4.032 kW / 8.1 kWh		6.912 kW / 6.9 kWh
Cycle Life	≥ 6000 (@ 25°C)		
Operating Temperature Range	-30°C ~ 50°C	-10°C ~ 50°C	-30°C ~ 50°C



Battery Module	M38180-S (1C)	Battery Module	M38314-S
Rated Voltage	38.4 V	Rated Voltage	38.4 V
Rated Power / Rated Energy	6.912 kW / 6.9 kWh	Operating Voltage	32.4 ~ 42.24V
Cycle Life	≥ 6000 (@ 25°C)	Battery Type	LiFePO ₄
Operating Temperature Range	-10°C ~ 50°C	Max. Charging/Discharging Current	157 A



140MW / 280MWh + 80MW / 160MWh

Peak Shaving and Frequency Regulation

Ulanqab, Inner Mongolia



80MW / 160MWh + 40MW / 80MWh

Peak Shaving and Frequency Regulation

Kubuqi, Inner Mongolia, China



100 MW / 200 MWh

Peak Shaving and Frequency Regulation

Anyang, Henan, China



1 50MW / 100MWh
PV + Storage
Anlu, Hubei, China

2 5MW / 10MWh
PV + Storage
Nanjing, Jiangsu, China

3 100kW / 206kWh
PV + Storage + Genset
Abu Dhabi, The UAE

4 100kW / 250kWh
Off-Grid PV + Storage
Moomba, SA, Australia

Scan the QR code
for more details

