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in @AlphaESS



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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

core STRATEGY

3 ALPHA HOME

ALPHA C&I and UTILITY

# O1 OUR STORY



# Who We Are

AlphaESS is a leading global green energy storage solution and service provider. With expertise in BMS, EMS, 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 40+ subsidiaries and branches worldwide, including China, Germany, Australia, Italy, the United Kingdom, South Africa, Singapore, Malaysia, and more. With over 200,000 systems actively running across 130+ countries, we have built a comprehensive global supply chain and logistics network.



130 +
Countries & Regions



200,000 + Systems Installed Globally



15 +
Years of Industry Experience



250 +
Patents in the ESS fiel



Residential Energy Storage Provider in Australia



Residential Energy Storage Provider in Germany



Global Residential Storage Provider



The Most Recommended Brand in Germany





iF & Reddot & G-mark
Design Award



TOP BRAND PV  $({\sf STORAGE} \ \& \ {\sf INVERTERS} \ )$ 

# **Our History**

2012

Established in Nantong, China

2013

1st Generation BMS, EMS, and AlphaCloud Platform • 2016

Commercial Energy Storage Project Launched

# 2017

- Large Air-cooled Energy Storage Container System
- Italian Subsidiaries Established
- 3rd Generation Residential ESS



2014

1st All-in-One Residential ESS



2015

European & Australian Subsidiaries Established 2018

Myanmar Rural Electrification Project \*

\* Named as a Finalist for the SmarterE Award in 2020





2019

Top 1 Residential ESS Provider in Australia (by SunWiz Research)

2020

Overseas Headquarters Established in Singapore 2023

Overseas Production Center Put into Operation



2024

20ft 5MWh Liquid-cooling Energy Storage

2025

2021

- 4th Generation Residential ESS
- Top 5 Residential ESS Provider in Germany (by EUPD Research)

2022

5th Generation Residential ESS



# **Global Presence**



Republic of Korea Global Headquarters - China\* 🎇 Malaysia 🔸 **Overseas Headquarters -**Singapore Australia

Subsidiaries

# **Production Centers**

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





**R&D Centers** 

Nantong, Suzhou, Nanjing, Tianjin

Global Service Network

# Key Networks

- Asia: China, Singapore, Malaysia, The Philippines, Myanmar, Indonesia, Uzbekistan, Japan
- Europe: Germany, United Kingdom, Italy, Belgium, Netherlands, France, Czech Republic, Spain
- Oceania: Australia, New Zealand, Fiji, New Caledonia
- Americas: United States, Guam, Hawaii, Colombia
- Africa: South Africa, Kenya, Nigeria



New Zealand





\*China: Nantong (Tongzhou & Qidong), Suzhou, Nanjing, Ulanqab, Beijing, Tianjin, Shenzhen, Guangzhou, 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.



# Major **Technical Areas**



Battery Management System (BMS)



Energy Management System (EMS)



Monitoring Platform



System Integration



# Major **Product Lines**



Utility-scale Energy Storage Systems



Commercial and Industrial Energy Storage Systems

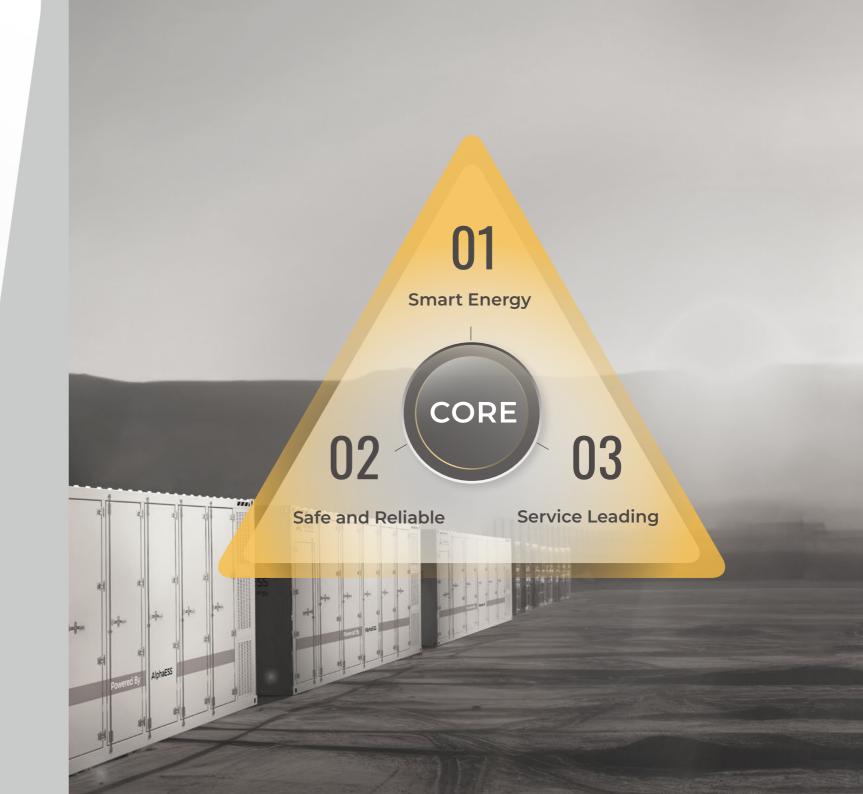


Residential Energy Storage Systems



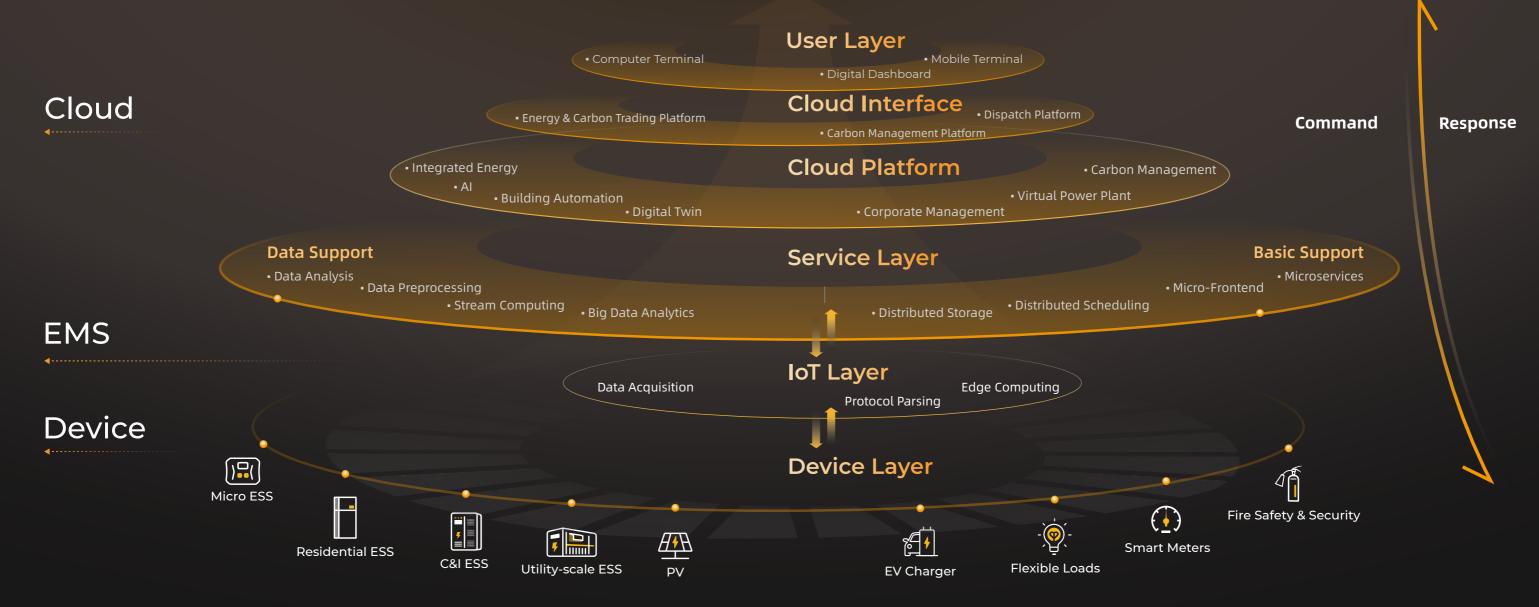
Micro Energy Storage Systems

# CORE STRATEGY



# **Smart Energy**

Digital Intelligent Management Architecture



# Safe and Reliable

# Material Safety

Secure the energy storage

Only first class, reliable **LiFePO**<sub>4</sub> cell will be used 02

# **System Safety**

Secure the quality and performance



Site Survey & Thermal &

Design Environmental

Control









Monitoring

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' parnters including distributors and installers.



further details.

Account



Instant Messaging



Work Order Management





Active User Community

### Low-Carbon Smart Park Platform



# 3 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
- ntelligent Management
- 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\*



# All-in-One Energy Storage System

First-Generation

2014-2021



# Next-Level Innovation

2022-2025



**Your Almighty Knight** 

SMILE-G3 Series



# Stackable Innovation for Quick Setup

SMILE-M5 Series



# 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.









# HIGHER EFFICIENCY BRINGING MORE PROFITS





Datasheet



Capacity: 3.8 - 60.5 kWh



8.2 - 49.2 kWh



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

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

Capacity: 3.8 - 49.2 kWh

Datasheet





SMILE-G3-T12 / 15 / 20

Three Phase: 12/15/20 kW

Capacity: 7.7 - 49.2 kWh

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### **More Profits**

- 200% PV Input
- MPPT Shadow Scanning
- High Voltage Battery with Higher
   RTE (Roud-Trip-Efficency)



### **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.

- VPP-ready system with automatic trading participation
- Dynamic tariff optimization for lower costs
- Dynamic balancing + SOC calibration = better trading performance







SMILE-G3-EVCS7
SMILE-G3-EVCT11

Single Phase / 7 kW
Three Phase / 11 kW



# User-Friendly

- · Easy installation
- · High compatibility
- Keycard or AlphaCloud launching for propriet ary 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
- $\cdot$  ECO mode: Customized timers and fixed power



Datasheet





Available in: EU, UK



SMILE-M5-S SMILE-M5-B

System Power

System Configuration

5 kw

Single Phase

5-30 kWh

13.9-55.6 kWh

# Warranty

10 Years Warranty

**Battery Module** 

5 kWh, 51.2V, 100Ah

13.9 kWh, 48V, 314Ah





# High Returns, Full Utilization

- · 100% Depth of Discharge
- · 200% PV Oversizing



# **Smart Safety Protection**

- · Aerosol Fire Defense
- · 10+ Hardware & software Protections



### Fast & Easy Setup

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



## Reliable & Durable

- · IP65 Dust & Water Resistant
- · 10-Year Warranty



Available in: Australia, UK, China

Datashe

# PIONEER OF ALL-IN-ONE SYSTEM

SMILE5 has made green living a reality for  $\mathbf{35,000}$ + 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

 $\cdot$  High Compatibility with Solar Systems



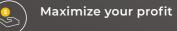


Datasheet

# **ALPHACLOUD**

# 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.



- Exploit the full potential of your PV system
- · Intelligent 24/7 monitoring to increase self-consumption
- Set parameters and join VPP



Remote troubleshooting and upgrades



Enjoy a smart home with IoT compatibility



**Data Security** 



# 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

 $1 \text{kW} / 2 \text{kW} \cdot 1 - 6 \text{kWh}$ 

### 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



# AlphaESS Capa

# Battery Parameters

Capacity 1024 Wh
Battery Chemistry LiFePO<sub>4</sub>
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**

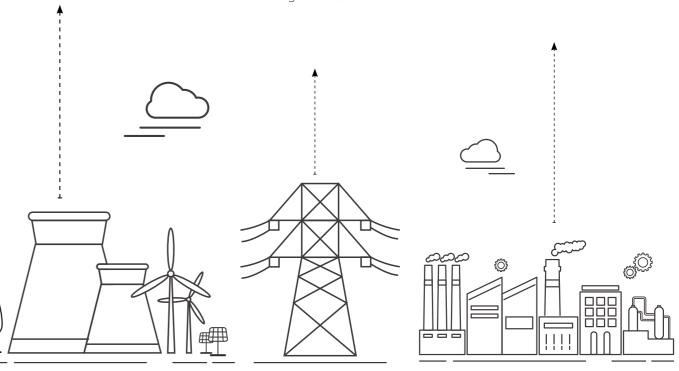
- · Smooth Wind & PV Power Output
- Maximizing Wind & PV Utilization
- Thermal Power Storage Frequency
   Modulation
- Active Power Control and Reactive
   Power Compensation

# **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

Mountain



Gobi Desert



Plair



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

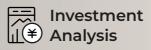


Full

Lifecycle

**Service** 

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



- · Expert Proposal Analysis
  - · Economic Assessment

  - · Establish Development Intentions
  - · Signing of Relevant Agreements

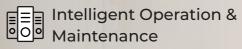


- · Core R&D Team
- · AlphaESS Core C&I Products
- · System Commissioning and Testing
- Product Shipment and Delivery

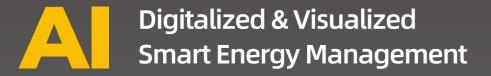


**Professional** Construction

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



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



# **Low-Carbon Smart Park Platform**

The software platform functions as a digital hub and control panel for everything within an industrial park. Its Al 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 Contro



Enhanced Electrical Protection



Intelligent Fire Protection

# **ALPHA C&I Solutions**

# StaX-M50

Flexible to Install. Hassle-Free Maintenance.

Powered by World's first Stackable Battery and Unique BMS functionality, the M50 series gives end to end customers with stability and more possibilities to handle varied needs. The modular design can easily fit into different site requirements with a simple stack and start installation.

# Effortless Installation with Modular Design

The modular design ensures seamless adaptation to various site requirements, enabling a simple stackand-start installation process.

# Advanced Software for Maximum Efficiency

Our cutting-edge software protects against profit loss by addressing key challenges:

- · Prevents capacity degradation due to SOC differences.
- · Avoids system shutdowns caused by a single battery failure.
- Enhances savings on electricity bills with a more flexible EMS strategy.



Model	StaX-M50
Rated Power	50 kW
Rated Energy	108.54-217.08 kWh
Ingress Protection	IP66
Battery Type	LiFePO <sub>4</sub>
Fire Protection	Aerosol
System Power	160%, 10s overload capacity 100% unbalance output
Warranty	5 years for system 10 years for battery
PV	4MPPT 8 string 40A input current 200% PV oversizing

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



# 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 <sub>4</sub>
Fire Protection	Aerosol + Smoke / Temperature Detection
Battery Module	M77314-S



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



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 <sub>4</sub>	
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





Model	STORION-LC-TB125
Rated Power	125 kW
Rated Energy	261 kWh
Ingress Protection	IP55
Battery Type	LiFePO <sub>4</sub>
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)





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 <sub>4</sub>
Fire Protection	Aerosol + Sprinkler
Battery Module	M166314-S



- · 200% PV intput oversizing
- · Easily Set Function

· All-in-One Design

· Safer Intelligent Fire

Parameters

Protection System

- · Seamless Switching to
- · System-wide Temperature

backup

Difference within 3°C







- · 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





# **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 <sub>4</sub>
Fire Protection	Perfluorohexanone + Water
Battery Module	M166314-S

M332314-104S-CN

- · Multiple fire protection systems, battery pack-level suppression
- · Enhanced electrical protection to mitigate shortcircuit 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 op doors, a



Herit	
otions available: back-to-back or double-sided	
adaptable to different station layouts	

Datasheet





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 <sub>4</sub>	
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







Available in: China

Datasheet

# 1000V Liquid-Cooled Battery Container





1000V	
Liquid-Cooled Battery C	ontainer



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 <sub>4</sub>	
Fire Protection	Aerosol	
Battery Module	M166314-52S-EX	Do notes:

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



Datasheet

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



Datasheet

Available in: MEA

# **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)
Rated Voltage	38.4 V
Rated Power / Rated Energy	6.912 kW / 6.9 kWh
Cycle Life	≥ 6000 (@ 25°C)
Operating Temperature	-10°C ~ 50°C
Range	

Battery Module	M38314-S
Rated Voltage	38.4 V
Operating Voltage	32.4 ~ 42.24V
Battery Type	LiFePO <sub>4</sub>
Max. Charging/Discharging	157 A

# 140MW / 280MWh + 80MW / 160MWh Peak Shaving and Frequency Regulation Ulanqab, Inner Mongolia





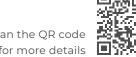








- 50MW / 100MWh PV + Storage Anlu, Hubei, China
- 5MW / 10MWh PV + Storage Nanjing, Jiangsu, China
- 100kW / 206kWh PV + Storage + Genset Abu Dhabi, The UAE
- 100kW / 250kWh Off-Grid PV + Storage Moomba, SA, Australia



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