AlphaESS

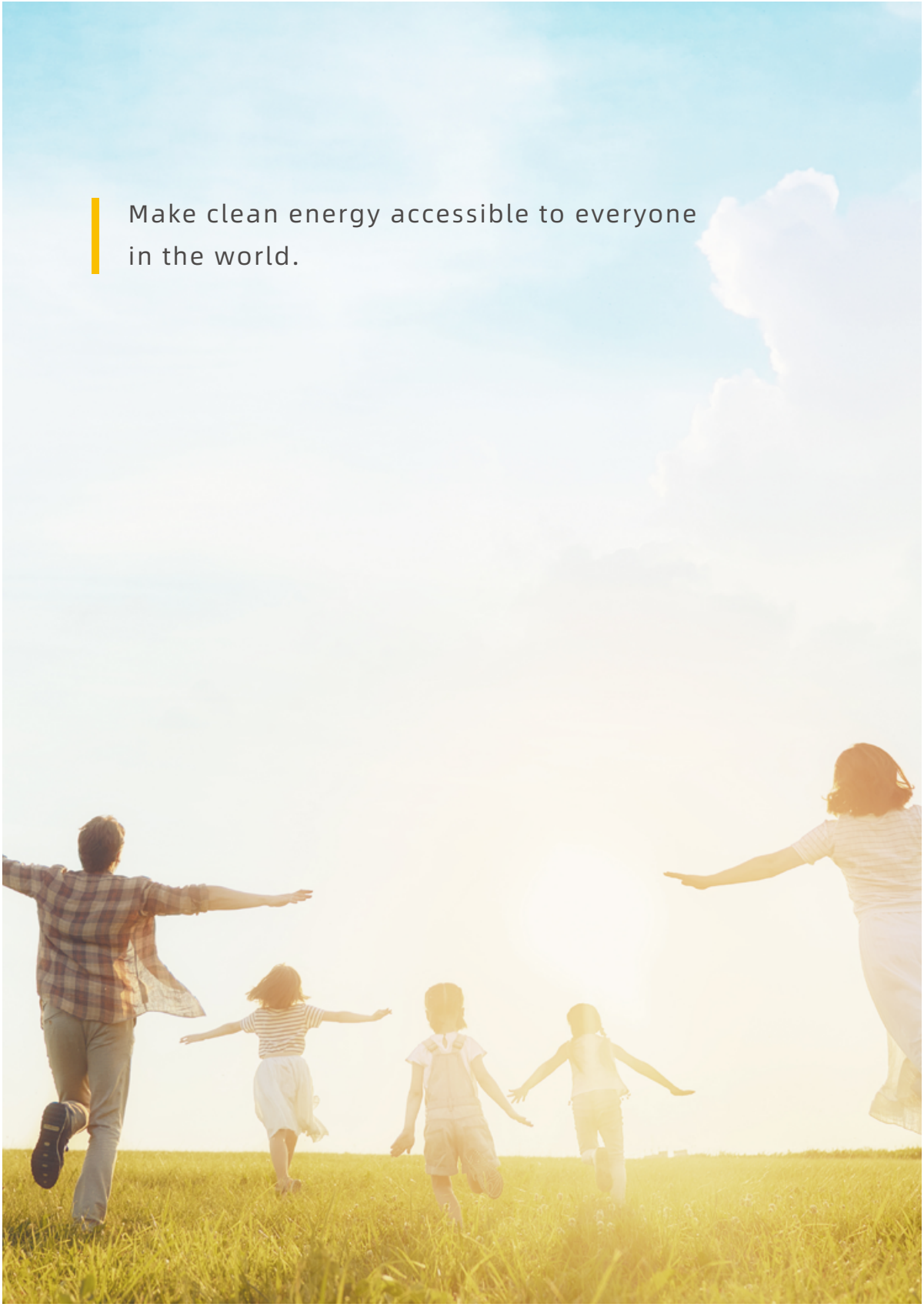
AN ENERGY STORAGE SOLUTION PROVIDER
COVERING THE FULL POWER RANGE



YOUR SMART ENERGY

AlphaESS

Make clean energy accessible to everyone in the world.



AlphaESS

AlphaESS is one of the world-leading green energy storage solution and service providers. The company specializes in residential and commercial applications, delivering pre-eminent products and fit-for-purpose solutions. With 30+ corporate establishments worldwide in the globe, AlphaESS provides local services and supports 150,000+ systems actively running in over 100+ countries, enabling millions of people to enjoy reliable, accessible and clean energy.

12
Years Since Establishment

150,000+
Systems Installed Globally

100+
Countries & Regions

4
Product Development Units

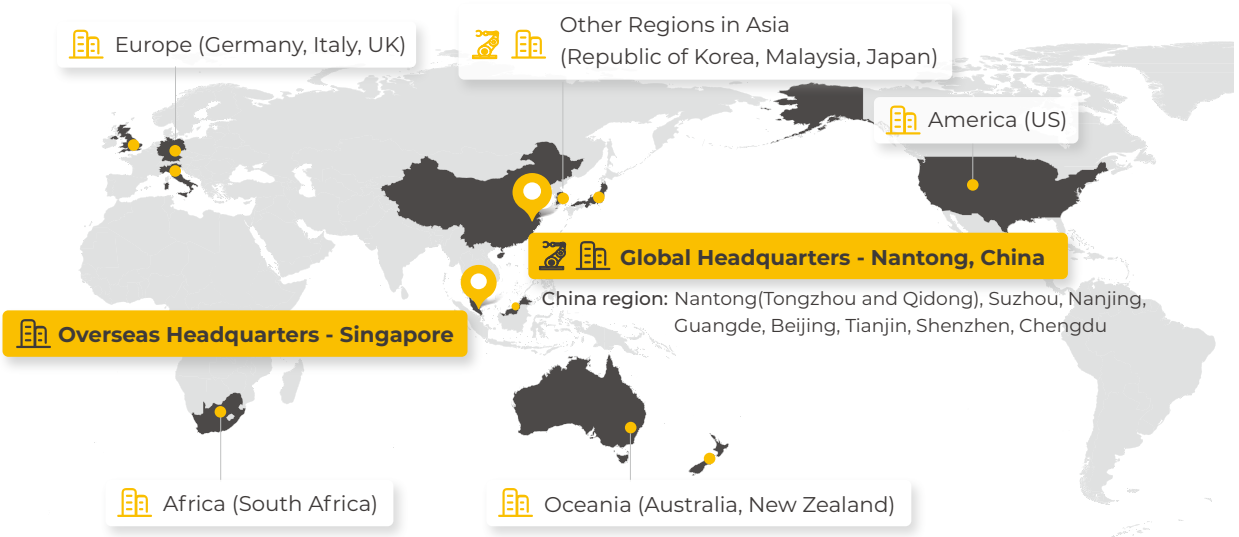
180+
Patents in ESS Field

30+
Corporate Establishments Worldwide

100,000 m²
Production Facility

1,000+
Employees in the Globe

GLOBAL PRESENCE / AWARDS AND CERTIFICATION



4 Production Sites

China: Nantong (Tongzhou and Qidong), Guangde
Malaysia: Penang

4 R&D Centers

Nantong (Tongzhou), Suzhou, Nanjing, Tianjin

ESG Transparency Award & GlocalIN Top50

iF & Reddot & G-mark Design Award

TOP BRAND PV (STORAGE & INVERTERS)

2023 TOP 1 Australia Market Share

2021 Top 3 overseas shipments ESS integrator

2023 H1 TOP5 Residential ESS Provider in Germany

2021 TOP 6 supplier of global residential storage systems

ees & THE smarterE award finalist

Global Warranty

OUR EXPERTISE



MAJOR APPLICATIONS

Utility-scale | **Residential / C&I / UPS**

Generation

Peak shaving

Renewable integration

Transmission & Distribution

Grid service

Transmission & distribution deferral

Consumption

Micro-grid
VPP
Self-consumption
Off-grid
Back-up power

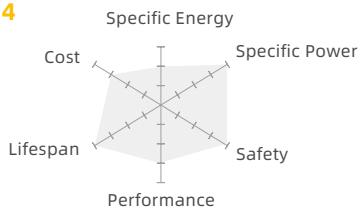
WHY ALPHAESS

1. Safety First

ONLY

The safest chemistry LiFePO4

We use only LiFePO4 batteries to ensure our customers benefit from premium electrical characteristics while maintaining the highest safety standards.



The most robust cell types

To ensure long mechanical lifespans and safety, AlphaESS never uses unreliable casing materials.



Global TIER 1 cell manufacturer

2. Core Technology

Application	Energy Transformation	Energy Conservation	**Secondary Development from Our Partners**
	Smart Home	Capitalization	
Platform	Prediction	Scheduling	**AlphaESS Core** **Building a "Windows or Android System" within the Energy Sector** **ESS covering the full power range / power facilities**
	AI Algorithm	Big Data	
Communication Control	5G/4G Power Carrier	Cloud Communication	
	BMS	EMS	
Hardware	Power Generation/ Transmission/ Distribution	Grid	

3. Smart Energy

AlphaCloud

Connects all the AlphaESS systems and enables monitoring, smart control, trading and energy service.

- Make maximum use of your PV system
- Intelligently control your system to maximize self-consumption
- Set parameters control and build VPP
- Monitor your system 24/7 and upgrade it remotely
- Enjoy a smart home with IoT compatibility



Battery Management System

Alpha BMS Research Institute

50+ BMS R&D veteran researchers with 10+ year ESS BMS

High SOC Accuracy

Our SOC algorithm is 97% accurate

Comprehensive Protection

3-level software protection
Redundant hardware level protection

Functional Safety

ASIL (Automotive Safety Integrity Level) hardware (Level D), software and system architecture
IEC61508 testing, the highest level (D)
Comprehensive and optimized protection including multiple monitoring items, POST, hardwired alarm system, multiple protection during operation

Energy Management System

Multifunctional and Powerful

Local absorption, reducing PV power abandonment
Peak and frequency regulation
PV power self-consumption
Load shifting
Backup power supply, UPS/EPS
Peak shaving
Micro/Off-grid control
Demand charge management

Highly Compatible

Enabling external control through SCADA, MODBUS, ETHERNET, etc.

Safety

Safety control designs
Industry-leading cloud computing
Financial-grade security



Residential

3kW - 20kW

- SMILE-G3-S3.6/S5/B5/S8
- SMILE-G3-T4~10
- SMILE-G3-T12~20
- SMILE-S6-HV
- SMILE-T10-HV
- SMILE-B3
- SMILE-B3-PLUS
- SMILE-S5/B5
- SMILE5
- SMILE-SP/SPB SERIES
- SMILE-G3-EVCS7/EVCT11



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

UPS Ability

24/7 Online Monitor

Safe and Reliable (LFP ONLY)

Modular Design

High Compatibility

Easy Installation and Expansion



SMILE Series



3.68/5 kW

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



4~10 kW

SMILE-G3-T4~10



12~20 kW

SMILE-G3-T12~20



6 kW

SMILE-S6-HV



10 kW

SMILE-T10-HV



3 kW

SMILE-B3 SMILE-B3-PLUS



5 kW

SMILE-S5/B5 SMILE5



7.6/9.6 kW

SMILE-SP/SPB SERIES
(North America Only)

SMILE-G3-S3.6/S5/B5/S8: 3.68kW / 5kW / 8kW Expandable to 60.6kWh

① SMILE-G3-S3.6/S5/B5-INV

Hybrid inverter

SMILE-G3-S3.6	SMILE-G3-S5	SMILE-G3-S8
Max. PV input 7.36 kW	Max. PV input 10 kW	Max. PV input 10 kW
Nominal output 3.68 kW	Nominal output 5 kW	Nominal output 8 kW

AC-Coupling

SMILE-G3-B5 Nominal output 5 kW

610 x 212 x 366 mm (W x D x H) / 19.5 kg

220 / 230 V rated voltage

IP65 (Outdoor)

Open API, modbus control portal



VPP Ready

Grid-Forming

Smart Off-Grid

High Max. PV Input

High PV Input Current

Better Backup Overload Capability

② Battery Module Options



SMILE-G3-BAT-3.8S

IP21 (Indoor)
1-4 units (series)
1C, 95% DoD, 96 V
39.2 kg
610 x 212.5 x 435 mm (W x D x H)
3.8 - 15.4 kWh



SMILE-G3-BAT-4.0S

IP65 (Outdoor)
1-4 units (series)
1C, 95% DoD, 96 V
42.5 kg
610 x 212.5 x 435 mm (W x D x H)
4.0 - 16.0 kWh



SMILE-G3-BAT-8.2P

IP21 (Indoor)
1-6 units (parallel)
1C, 95% DoD, 256 V
78.3 kg
610 x 212 x 793 mm (W x D x H)
8.2 - 49.2 kWh



SMILE-G3-BAT-10.1P

IP65 (Outdoor)
1-6 units (parallel)
0.5C, 95% DoD, 96 V
90 kg
610 x 212 x 793 mm (W x D x H)
10.1 - 60.6 kWh

SMILE-G3-T4~10: 4 / 5 / 6 / 8 / 10kW Expandable to 49.2kWh

① SMILE-G3-T4~10-INV

Hybrid inverter

Max. PV input 8/10/12/16/20 kW

Nominal output 4/5/6/8/10 kW

610 x 212.5 x 416 mm (W x D x H)

26.7 kg

380 / 400 V rated voltage

IP65 (Outdoor)

Open API, modbus control portal



Redundant Design without HV Box

Higher PV Input (3 MPPT)

Capable of 150% Unbalancing per Phase

② Battery Module Options

3.8 kWh Up to 6



SMILE-G3-BAT-3.8S

IP21 (Indoor)

2-6 units (series)

1C, 95% DoD,96 V

39.2 kg

610 x 212.5 x 435 mm (W x D x H)

7.7 - 23.0 kWh

4.0 kWh Up to 6



SMILE-G3-BAT-4.0S

IP65 (Indoor)

2-6 units (series)

1C, 95% DoD, 96 V

42.5 kg

610 x 212.5 x 435 mm (W x D x H)

8.0 - 24.0 kWh

8.2 kWh Up to 6



SMILE-G3-BAT-8.2P

IP21 (Indoor)

1-6 units (parallel)

1C, 95% DoD, 256 V

78.3 kg

610 x 212 x 793 mm (W x D x H)

8.2 - 49.2 kWh

SMILE-G3-T12~20: 12 / 15 / 20kW Expandable to 49.2kWh

① SMILE-G3-T12~20-INV

Hybrid inverter

Max. PV input 24/30/40 kW

Nominal output 12/15/20 kW

610 x 250 x 610 mm (W x D x H)

44 kg

380 / 400 V rated voltage

IP65 (Outdoor)

Open API, modbus control portal



Elegant Design

Higher PV Input
(3 MPPT)

Commercial Applications
Compatibility

② Battery Module Options

IP21 (Indoor)

2-6 units (series)

1C, 95% DoD,96 V

39.2 kg

610 x 212.5 x 435 mm
(W x D x H)

7.7 - 23 kWh



SMILE-G3-BAT-3.8S

IP21 (Indoor)

Max. 6 units (parallel)

1C, 95% DoD, 256 V

78.3 kg

610 x 212 x 793 mm
(W x D x H)

8.2 - 49.2 kWh



SMILE-G3-BAT-8.2P

SMILE-S6-HV: 6kW Expandable to 49.2kWh

① SMILE-S6-HV-INV

Hybrid inverter

Max. PV input 9 kW

Nominal output 6 kW

100Amp integrated charger

580 x 230 x 440 mm (W x D x H) / 25 kg

IP65 (Outdoor)

UPS 6 kW continuous for critical loads

Open API, modbus control portal

With PV and battery isolator, AC circuit breaker on the side



VPP Ready

Full 6kVA Backup

AFCI & Rapid Shutdown

High Efficiency Battery

② Battery Module Options

IP21 (Indoor) / IP65 (Outdoor)

Max. 6 units (parallel)

5 kWh module

1 C, 95% DoD, 153.6 V

50 kg

580 x 183 x 530 mm
(W x D x H)

5 - 29.5 kWh

5 kWh
Up to 6



SMILE-BAT-5PH

IP65 (Outdoor) / IP21 (Indoor)

Max. 6 units (parallel)

8.2 kWh module

1.2C / 1C, 95% DoD, 256 V

71 kg (Indoor) / 75 kg (Outdoor)

580 x 230 x 730 mm (W x D x H)
(Indoor)

580 x 230 x 820 mm (W x D x H)
(Outdoor)

8.2 - 49.2 kWh

8.2 kWh
Up to 6



SMILE-BAT-8.2PH
(Indoor)
SMILE-BAT-8.2PH-P
(Outdoor)

SMILE-T10-HV: 10kW Expandable to 49.2kWh

① SMILE-T10-HV-INV

Hybrid inverter

Max. PV input 16 kW (2 MPPT)

Max. output power 10 kW

580 x 230 x 606 mm (W x D x H) / 30 kg

380 V / 400 V rated voltage

IP65 (Outdoor)

An integrated high voltage cable box with PV and battery isolator, AC circuit breaker

BMS & EMS integrated



160% PV Input

Three Phase Output

High Voltage & High Efficiency

② Expandable Battery Module

IP65 (Outdoor) / IP21 (Indoor)

Max. 6 units (parallel)

8.2 kWh module

1.2C / 1C, 95% DoD, 256 V

71 kg (Indoor) / 75 kg (Outdoor)

580 x 230 x 730 mm (W x D x H) (Indoor)

580 x 230 x 820 mm (W x D x H) (Outdoor)

8.2 - 49.2 kWh



SMILE-BAT-8.2PH
(Indoor)

SMILE-BAT-8.2PH-P
(Outdoor)

SMILE-B3: 3kW / 2.9kWh Expandable to 17.2kWh

All-in-One Module

AC-Coupling

Nominal output 3 kW AC.

Built-in 2.9 kWh battery module

610 x 219 x 650 mm (W x D x H)

50 kg

IP65 (Outdoor) / IP21 (Indoor)

Open API, modbuscontrol portal



Retrofit

AC-Coupling

Built-in Battery

Expandable Battery Module

IP65 (Outdoor) / IP21 (Indoor)

Max. 5 units (parallel)

1C, 96% DoD, 51.2 V

39 kg

610 x 220 x 305 mm (W x D x H)

2.9 - 17.2 kWh



M4856-P

SMILE-B3-PLUS: 3kW / 5.04kWh Expandable to 30.24kWh

All-in-One Module

AC-Coupling

Nominal output 3 kW

Built-in 5.04 kWh battery module

640 x 250 x 725 mm (W x D x H)

60 kg

IP65 (Outdoor)

Open API, modbus control portal



VPP Ready

Compatible with All Solar Inverters

Slim but Powerful

Built-in Battery

Expandable Battery Module

IP65 (Outdoor)

Max. 5 units (parallel)

0.5C, 95% DoD, 48V

48 kg

640 x 250 x 345 mm (W x D x H)

5.04 - 30.24 kWh



SMILE-BAT-5P

SMILE-S5/B5: 5kW / 5.04kWh Expandable to 30.24kWh

All-in-One Module

Hybrid inverter

SMILE-S5-INV

Max. PV input 8 kW

Nominal output 5 kW

AC-Coupling

SMILE-B5-INV



Built-in 5.04 kWh battery module

640 x 250 x 745 mm (W x D x H) / 75 kg

IP65 (Outdoor)

Open API, modbus control portal

VPP Ready

Compatible with All Solar Inverters

Slim but Powerful

Built-in Battery

Expandable Battery Module

IP65 (Outdoor)

Max. 5 units (parallel)

0.5C, 95% DoD, 48 V

48 kg

640 x 250 x 345 mm (W x D x H)

5.04 - 30.24 kWh



SMILE-BAT-5P

SMILE5: 5kW Expandable to 80kWh

① SMILE5-INV

Hybrid inverter

Max. PV input 7.5 kW

Nominal output 5 kW

100Amp integrated charger

610 x 210 x 627 mm (W x D x H) / 30 kg

IP65 (Outdoor)

Open API, modbus control portal

An integrated cable box with PV and battery isolator, AC circuit breaker



Best Seller

VPP Ready

Classic Design

② Battery Module Options



M4856-P

IP65 (Outdoor) / IP21 (Indoor)

Max. 6 units (parallel)

1C, 96% DoD, 51.2 V

39 kg

610 x 220 x 305 mm (W x D x H)

2.9 - 17.2 kWh



SMILE5-BAT

IP65 (Outdoor) / IP21 (Indoor)

Max. 6 units (parallel)

0.5C, 96% DoD, 51.2 V

73 kg

610 x 207 x 629 mm (W x D x H)

5.7 - 34.4 kWh



SMILE-BAT-10.1P

IP65 (Outdoor) / IP21 (Indoor)

Max. 6 units (parallel)

0.5C, 96% DoD, 48 V

95 kg

610 x 236 x 678 mm (W x D x H)

10.1 - 60.5kWh



SMILE-BAT-13.3P

IP65 (Outdoor)

Max. 6 units (parallel)

0.35C, 100% DoD, 48 V

121 kg

610 x 236 x 816 mm (W x D x H)

13.3 - 80 kWh

North America Only

SMILE-SP/SPB SERIES: 7.6kW/9.6kW Expandable to 49.2kWh

① SMILE-SP(SPB)7.6/9.6-INV

DC-Coupling

SMILE-SP7.6/9.6

Max. PV Input Voltage 600 V

AC-Coupling

SMILE-SPB7.6/9.6



Nominal output 7.6/9.6 kW

415mm × 175mm × 791mm (W x D x H)

32 kg

IP65 (Outdoor)

Open API, modbus control portal

Fully Home Backup

Micro-grid Applications

WIFI Module Integrated

High Efficiency Battery

AFCI & Rapid Shutdown

② Expandable Battery Module

IP65 (Outdoor)

Max. 6 units (parallel)

8.2 kWh module

1.2C, 95% DoD, 256 V

81 kg

580 x 230 x 800 mm (W x D x H)

8.2 - 49.2 kWh



SMILE-BAT-8.2PHA

Solar-Storage-EV Charging Solution



AlphaESS Solar-Storage-EV Charging solution aims to provide homeowners with a 100% green energy charging experience for their electric vehicles.

The system integrates PV panels, the SMILE-G3 energy storage system, an EV charger, and a single smart meter, each seamlessly integrating with the AlphaCloud ecosystem. With just one App, users can achieve green energy management of the entire home's loads.

SMILE-G3-EVCS7	SMILE-G3-EVCT11
Single Phase / 7 kW	Three Phase / 11 kW

100% Green Energy

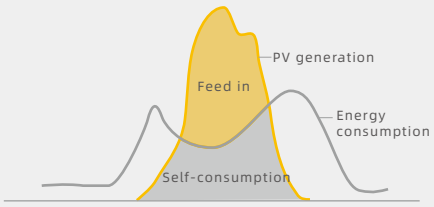
Dynamic Load Balancing

Key Cards Supported

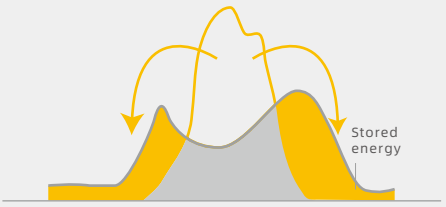
3 Start-up Strategies × 4 Charging Modes

MAXIMIZING YOUR RETURNS

1.Self-Consumption Optimization



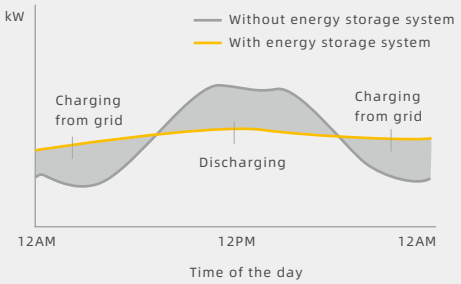
Without energy storage system



With energy storage system

The energy storage system can help you cut down the electricity bill by storing surplus PV generation and discharging later to meet your demand of electricity.

2. Load Shifting



User-end: Load Shifting

Save money by avoiding peak electricity rates, storing electricity during off-peak times and discharging stored energy during peak times.

Transmission & Distribution: Peak Shaving

Avoid substation and power line upgrades by providing a fast and responsive emission free solution to variable load peaks.

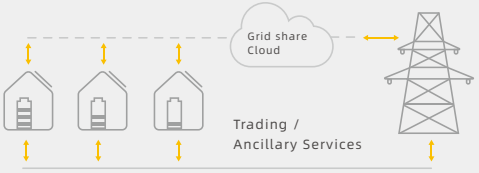
Ancillary Services

The combination of several flexible production and consumption units, controlled by a central intelligent system, is the core behind a VPP, which can stabilize the grid by balancing energy supply and demand.

Electricity Arbitrage

Optimize trading strategies to maximize returns. VPP can utilize the aggregated power to react to changes in electricity pricing by adapting to the existing supply of power on the grid.

3. VPP Revenue



Li-ion Battery

PORTABLE POWER STATION

MAY THE POWER BE WITH YOU

EMERGENCY
To survive a blackout

TRAVEL
Portable power for adventures

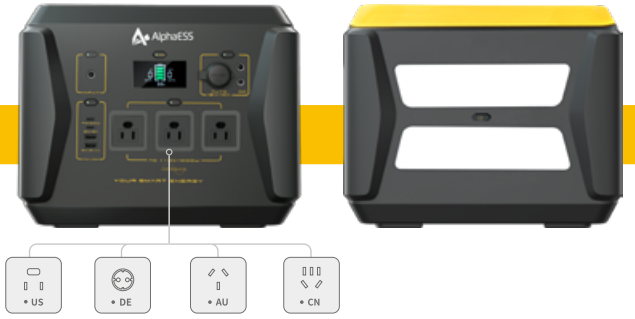
RENEWABLES
Fast solar recharging with MPPT







BlackBee 1000



*There are 4 AC plug standards available. (NOT mixable in one device)

Output Power	1000 W	Type-C Output	2
Capacity	1036.8 Wh	USB Output	2
AC Output	3	Wireless Charging Output	2
DC Output	3	Weight	10.2 kg

- Big Capacity in Small Box
- 3- Level Brightness
- Equipped with 2 Wireless Charging Pads
- SOS Function
- Capable to Charge 12 Devices Simultaneously

BlackBee 2000



*There are 5 AC plug standards available. (NOT mixable in one device)

Output Power	2200 W	USB-A Output	4
Capacity	2203.2 Wh	USB-C Output	2
AC Output	4	Wireless Charging Output	2
DC Output	2	Weight	21 kg

- 95% Inverter Efficiency
- 95% of DoD (Depth of Discharge)
- Equipped with 2 Wireless Charging Pads
- Fully Charged in 1.5 Hours
- Capable to Charge 15 Devices Simultaneously
- AC & Solar Panel Charging

Balcony Solar Energy Storage System





VitaPower 1000

Model	VT1000
Capacity	1024Wh
PV Input	Max. 1200W (2×600W); 10~60 V⎓ Max. 32A (2×16A)
On-Grid Output	Max. 800W
Peak Power	2000W
Additional Battery Expansion	0~5 Units
Dimensions	430 x 210 x 323 mm
Weight	18.3 kg

- Plug & Play
- Smart App
- Safe & Reliable
- Diverse Application Scenarios
- All-in-One Design
- Stackable Expansion up to 6 kWh
- Up to 2000W Adjustable Power



VitaMate Set



Max. input power	600 W * 2
AC on-grid port max. input / output power	Max. 1200 W
AC on-grid port max. input / output power	1200 W / 2400 W
Battery port max. charge / discharge power	2400 W / 1200 W



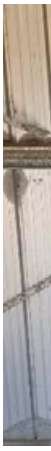
Battery Parameters

Capacity	1024 Wh
Battery Chemistry	$LiFePO_4$
Ingress Protection	IP65

- UPS-level on/off-grid switching time <10ms
- System-level IP65
- Support AC-coupled in balcony microinverter systems
- On-grid and off-grid applications

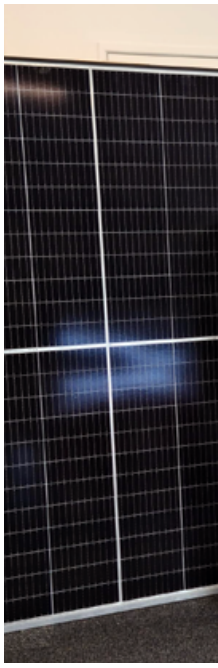




















" AlphaESS storage system - good product, good concept , good advice , good implementation . I am still satisfied with my photovoltaic system and integrated power storage and can only recommend the system to everyone. "



Running in

100+ countries

around the world



















Commercial & Industrial

30 kW - 10 MW+

- Back-up power
- Off-grid
- Micro-grid
- Fuel saving solution
- Self-consumption
- Demand charge management

5MWh Liquid-Cooled Battery Container



Model	AlphaCS-H20-DC-LC 2.0	**Battery Type**	$LiFePO_4$
Rated Energy	5015.9 kWh	**Fire Protection**	Perfluorohexanone + Water
Ingress Protection	IP55	**Battery Module**	M166314-S 
Charge/Discharge Rate	0.5 C		

- Enhanced electrical protection to mitigate short-circuit risks
- Liquid cooling for uniform temperature, 20% less energy loss
- 34% increase in energy density, good return on investment
- Cloud-based data management, remote troubleshooting
- Compatible with various PCS and EMS
- Compartment-level & pack-level intelligent fire protection systems

1500V Liquid-Cooled Battery Container



Model	AlphaCS-H20-DC-LC	**Battery Type**	$LiFePO_4$
Rated Energy	3927.3 kWh	**Fire Protection**	Aerosol + Water (Optional: Perfluorohexanone)
Ingress Protection	IP55	**Battery Module**	M166280-S 
Charge/Discharge Rate	0.5 C		

- Liquid cooling, system temperature difference ≤ 5° C
- Compartment-level & pack-level intelligent fire protection systems
- Support parallel connection of multiple containers with flexible layout
- External maintenance design, efficient and convenient
- High energy density

Liquid-Cooled Battery Cabinet

Model	STORION-LC-372
Rated Energy	372.7 kWh
Ingress Protection	IP55

Battery Type	$LiFePO_4$
Fire Protection	Aerosol + Water
Battery Module	M166280-S



- All-in-one design for easy installation & transportation
- Liquid cooling, system temperature difference ≤ 3° C
- Support parallel connection of multiple systems on the DC side
- Compartment-level & pack-level intelligent fire protection systems with explosion relief strategy
- High IP rating and dehumidification solution

All-in-One Air-Cooled Cabinet NEW!

Model	STORION-G2-H50	STORION-G2-H30
Rated Power	50 kW	30 kW
Rated Energy	55.2 ~ 209.6 kWh	34.5 ~ 209.6 kWh
Ingress Protection	IP20	IP20
Battery Type	$LiFePO_4$	$LiFePO_4$
Fire Protection	Smoke Detector	Smoke Detector
Battery Modules	M7790-S or M38210-SC	M7790-S or M38210-SC



- PCS & battery all-in-one system
- Plug & play installation
- Seamless on/off-grid switching within 20ms
- Easy parameter settings, cloud-based control
- Multiple working modes available
- Support parallel connection of 5 systems (on-grid) or 3 systems (off-grid)

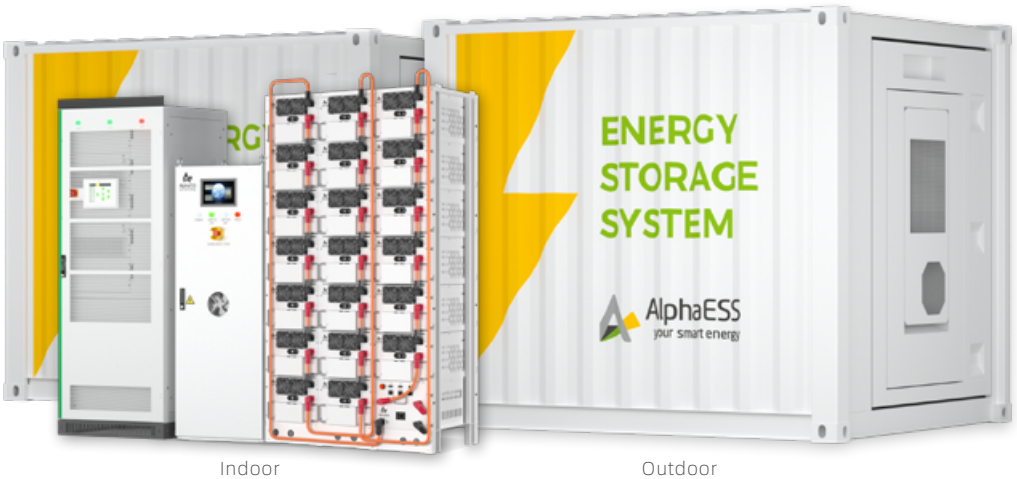
Model	STORION-H30-O
Rated Power	30 kW
Rated Energy	96.7 kWh
Ingress Protection	IP55

Battery Type	$LiFePO_4$
Fire Protection	Aerosol
Battery Module	M7790-S or M38210-SC



- PCS & battery all-in-one system
- Plug & play installation
- Space-saving design
- Support parallel connection of 3 systems (off-grid)

Tailored Hybrid ESS Solutions



Indoor Outdoor

STORION-T50/ T100 Series

Model	Indoor	Outdoor
Rated Power	50 / 100 kW Available	
Rated Energy	62 ~ 968 kWh	62 ~ 387 kWh
Battery Module	38V 180Ah (1C) / 38V 210Ah (0.5C)	
Ingress Protection	IP20	IP54
Safety Protection	• Constant temperature control at 23±2° C • Self-diagnostic & EMS cell-level detection • Smoke & temperature detection • FM-200 fire extinguisher	

- All-in-one design, space-saving
- Flexible configuration
- On/Off-grid switching time ≤ 20ms
- Support 200% PV oversized
- High security & control: cell-level monitoring of batteries



Indoor Outdoor

TB187.5/375/500 Series

Model	Indoor	Outdoor (20/40ft)
Rated Power	187.5/375/500 kW Available	
Rated Energy	0.24 ~ 1.6 MWh	
Battery Module	38V 180Ah (1C) / 38V 210Ah (0.5C)	
Ingress Protection	IP20	IP54
Safety Protection	• Constant temperature control at 23±2° C • Self-diagnostic & EMS cell-level detection • Smoke & temperature detection • FM-200 fire extinguisher	

- Easy installation: most devices are pre-assembled at the factory
- Flexible configuration
- On/Off-grid switching time ≤ 20ms
- High security & control: cell-level monitoring of batteries
- Support parallel connection of containers: up to 2MW / 6.4MWh

Liquid-Cooled Battery





Battery Module	M166314-S (0.5C)	M166280-S (0.5C)
Rated Voltage	166.4 V	166.4 V
Rated Power / Rated Energy	26.1 kW / 52.2 kWh	23.2 kW / 46.5 kWh
Cycle Life	≥ 6000 (@ 25℃)	≥ 6000 (@ 25℃)
Operating Temperature Range	-30° C ~ 50° C	-30° C ~ 50° C

Air-Cooled Battery



Battery Module	M77280-S (0.5C)
Rated Voltage	76.8 V
Rated Power / Rated Energy	10.7 kW / 21.5 kWh
Cycle Life	≥ 6000 (@ 25℃)
Operating Temperature Range	-30° C ~ 50° C



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



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

GLOBAL PROJECTS



Project:
1 MW / 2 MWh

Application:
Energy Self-sufficient Shopping Mall

Location:
Accra, Ghana

Project:
500 kW / 1.26 MWh

Application:
UPS + Load Management for Pharmaceutical Factor

Location:
Cambodia





Project:
500 kW / 1 MWh

Application:
Energy Independence for Hospital

Location:
Accra, Ghana

Project:
100 kW / 670 kWh
50 x SMILE5 5 kW

Application:
Energy Self-sufficient Community

Location:
Australia





Project:
150 kW / 612 kWh

Application:
PV + Storage + Genset

Location:
Tangerang, Indonesia

Project:
50 kW / 103 kWh

Application:
Solar + Storage + Off Grid

Location:
NSW, Australia





Project:
50 kW/100 kW & 100 kWh-300 kWh

Application:
Solar-battery-diesel Microgrid System

Location:
DeeDoke village, Myanmar

Project:
100 kW/102.6 kWh

Application:
PV + Storage+ Genset

Location:
Borno State, Nigeria





Project:
50 kW/102 kWh

Application:
PV + Storage

Location:
Wolfsberg, Austria

Project:
6 MW / 12 MWh

Application:
PV + Storage

Location:
Hubei, China





Project:
100 kW / 160 kWh

Application:
PV + Storage

Location:
Jiangsu, China

Project:
250 kW / 517.5 kWh

Application:
PV + Storage

Location:
Guangdong, China





Project:
10 MW / 20 MWh

Application:
PV + Storage

Location:
Hubei, China

Project:
10 MW / 20 MWh

Application:
PV + Storage

Location:
Jiuquan, Gansu, China





Project:
5 MW / 10 MWh

Application:
Wind Power + Storage

Location:
Xinjiang, China

Project:
2.5 MW / 10 MWh

Application:
Storage + Peak Shaving

Location:
Nanjing, China





Project:
2 MW / 8 MWh

Application:
Storage + UPS + Peak Shaving

Location:
Changshu, China

Project:
500kW / 1.1MWh

Application:
UPS + Load shifting + Self-consumption, Renewable Demonstration Park

Location:
Yangzhong, China



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