

### **SMALL SCALE C&I STORAGE SOLUTIONS**

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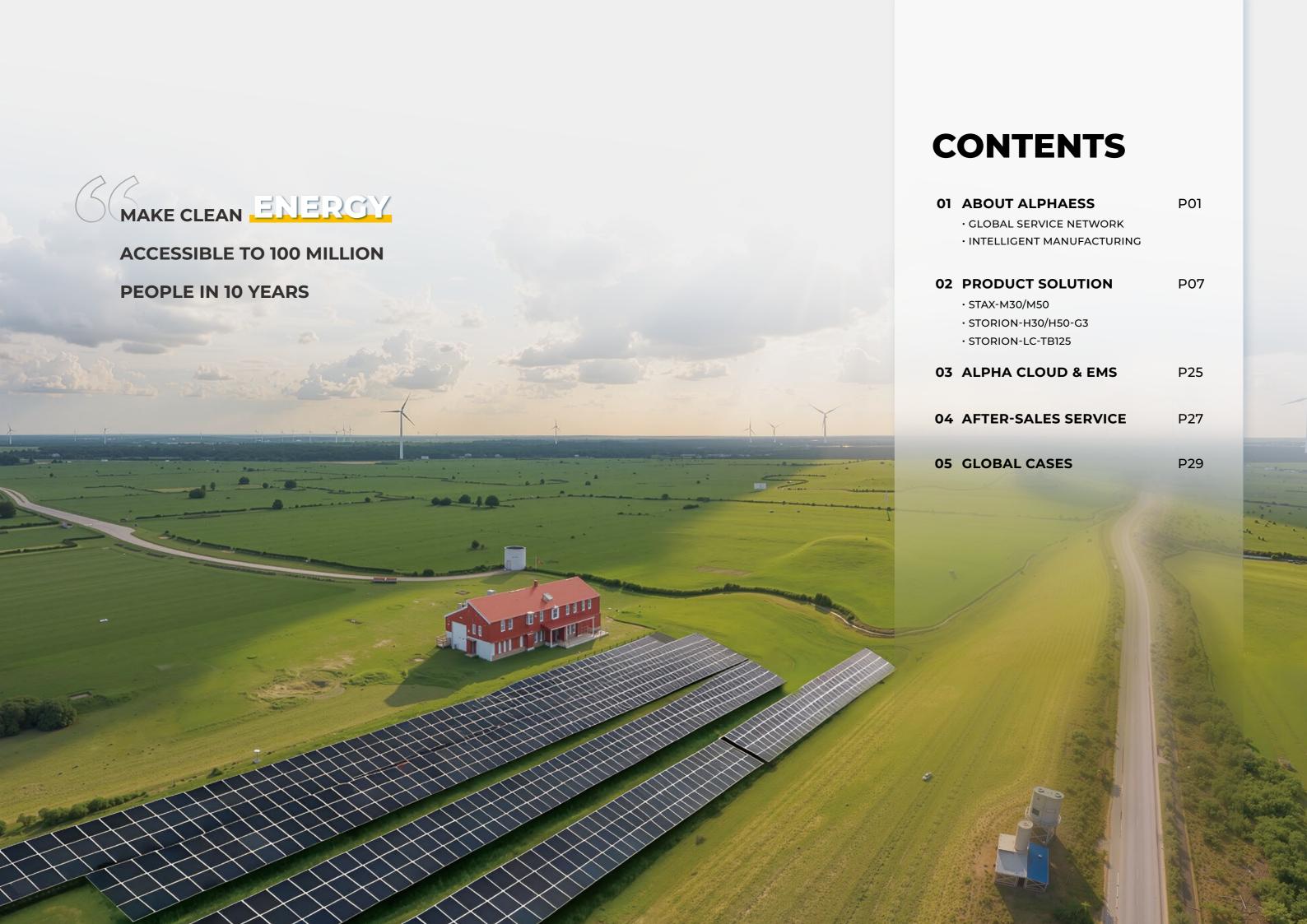
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### STORING TOMORROW'S ENERGY TODAY FOR A SAFER FLEXABLE FUTURE





### **ABOUT ALPHAESS**

Founded in 2012, AlphaESS is now one of the world-leading energy storage solution and service providers. The company specializes in delivering pre-eminent fit-for-purpose product solutions covering the full power range from small portable power stations all the way up to large utility-scale solutions. With 40+ subsidiaries in the globe, AlphaESS provides local services and supports 200,000+ systems actively running in over 130+ countries.

Years since Establishment

250+
Patents in the ESS Field

200,000+
Systems Installed Globally

130+
Countries & Regions

**TOP 1** 

2022-2023 TOP 1
Australia Market Share
from SunWiz

**TOP 5** 

2023 H1 TOP 5
Residential ESS Provider in Germany
from EUPD Research

**TOP 6** 

2021 TOP 6 Supplier of Global Residential Storage Systems from IHS Markit



The Most Recommended Brand in Germany



ESG Transparency Award



iF & Reddot & G-mark

Design Award



TOP BRAND PV
(STORAGE & INVERTERS)



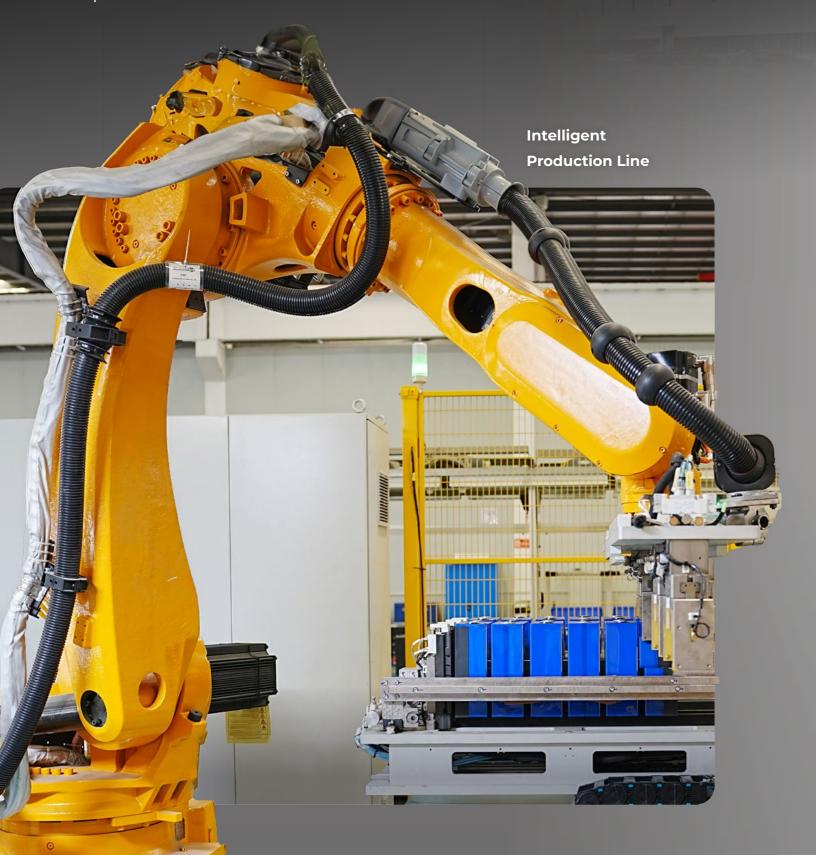
### **GLOBAL SERVICE NETWORK**



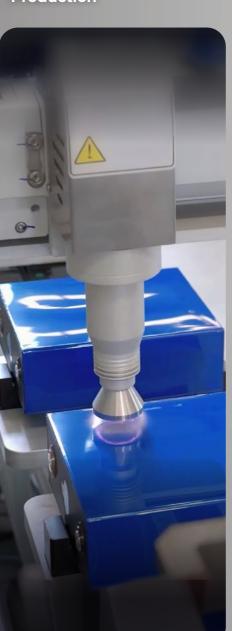
AlphaESS 03

### INTELLIGENT MANUFACTURING

With technological innovation as the engine, we provide efficient, precise and reliable products and services.



Lean Production



Intelligent Warehousing



Digital Integration



### PRODUCT SOLUTION

Maximize ROI – Payback in as Fast as 3 Years

### **Optimize Investment**

- · All-in-One design: smaller footprint, higher capacity
- · Hybrid coupling for optimal solar integration
- · Simplified installation: pre-installed, energized transport or stackable deployment

#### **Reduce O&M Costs**

- · Cell-level active balancing: increase available capacity
- · Smart thermal management: improve stability and lifespan
- · Intelligent EMS: reliable system reduces labor cost

### **Boost Energy Profits**

- · High system efficiency for maximum energy utilization
- · Multiple revenue streams: dynamic tariffs, energy trading, VPP-ready

### **FLEXIBLE EXPANSION**

Power:

Indoor & Outdoor

Cell:

**314** Ah

30 kW ~ 6.25 MW

Capacity:

60 kWh ~ 6.12 MWh









StaX-M30/M50

STORION-H30/H50-G3

STORION-LC-TB125

## **MULTI-LEVEL SAFETY** Protection from Cell to System **UL 9540A** \*UL9540A certified to meet global leading safety standards \*No spreading and deformation at over 800°C





### **Three-Level Fire Protection Design**



### Cell Level

Real-time cell temperature monitoring via BMS, automatic power cutoff in case of short circuits, and aerogel insulation for thermal protection



### **Module Level**

Integrated aerosol fire suppression system

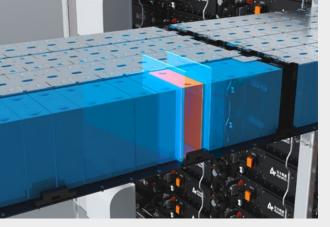
MSD: Emergency physical isolation to provide maintenance security



### System Level

Temperature and smoke detectors, coordinated water/aerosol suppression, and explosion relief vents compliant with NFPA 68









### **ON-GRID SCENARIO**

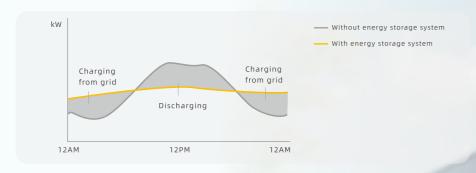
In the scenario of stable grid, AlphaESS Storion system maximizes the self-consumption of solar energy and the user's revenue.

### Self-Consumption

Maximize the use of solar energy to meet load demands, with the surplus stored in batteries.

### Peak Shaving

The system provides supplementary power when the load exceeds the grid planning limits or its peak, and the power gap is addressed through the Storion System.



### Dynamic Tariff

Based on EPEX dynamic electricity prices, it provides an intelligent scheduling strategy: charging when prices are low and discharging when prices are high, ensuring you always have access to low-cost electricity.

#### **▶** Imbalance Trading

The Storion System supports participation in Imbalance Trading via Eniris (Modbus TCP) and the API platform, making full use of battery capacity to generate revenue, which will further optimize the system's ROI.



### **OFF-GRID SCENARIO**

In micro grid or off-grid scenarios, the Storion system delivers continuous, reliable power—enabling straightforward energy independence.

### ► Reliable Backup

guaranteeing uninterrupted backup power for Essential Loads:





#### Dual Power

Both the diesel generator and the STORION system work together, The EMS controls the generator's operation, ensuring continuous power supply, guaranteeing a reliable power supply for customers residing in off-grid areas.

### STAX- M30/M50

The M30/M50 is AlphaESS's first stackable C&I energy storage system.

With modular design, plug-and-play setup, and robust outdoor protection, it ensures fast deployment, reliable backup, and scalable performance — up to 216.9 kWh.

#### ► Fast Installation · Modular Design

- 30-minute plug & play setup no battery rack or complex wiring needed
- Modular stackable design for flexible deployment
- Supports transportation by truck, train, ship, or even helicopter ideal for rapid site deployment

### Reliable Operation · 24/7 Energy Security

- Built-in AlphaESS BypassTech: automatically isolates faulty modules without system shutdown
- Supports off-grid functionality for critical load continuity
- Low-noise performance suitable for nighttime or noise-sensitive environment

#### Scalable & ProfitableFlexible Configuration

- Effortless plug-and-play expansion up to 216.9 kWh
- 200% PV input design boosts green energy utilization and ROI  $\,$
- IP66 protection rating for harsh outdoor conditions
- Integrated diesel generator port for backup resilience

### **AI-Driven Battery Life Optimization**

- Equipped with Al-powered SOC calibration
- Maintains cell consistency, prolongs battery life, and reduces maintenance costs



### **STAX-M30/M50**

Model	StaX-M30	StaX-M50	
System Specifications			
Nominal Output Power	30 kW	50 kW	
System Capacity	60.25 ~ 216.9	kWh	
Ingress Protection	IP66		
Battery Chemistry	LFP (LiFeP	04)	
Warranty	5 Years Product Warranty (10 years warranty		
PV Side	, , , , , , , , , , , , , , , , , , ,		
Max. Input Power	60 kW	100 kW	
Start-up Voltage	180 V		
MPPT Voltage Range	150 ~ 850	V	
Number of MPPTs	3	4	
Number of Strings per MPPT	6	8	
Max. Input Current	40 A*3	40 A * 4	
Max. Short-circuit Current	60 A*3	60 A * 4	
AC Data (Grid)			
Nominal Output Power	30 kW	50 KW	
Max. Output Apparent Power	30 kVA	50 kVA	
Iominal Grid Voltage	3/N/PE, 220 V / 380 V; 3/N		
Iominal Grid Frequency	50 Hz/60		
Max. Output Current	45.6 A	76 A	
Power Factor	< 0.99 (0.8 leading -	0.8 lagging)	
Max. THD of Current	< 3%		
C Data (Backup)			
Iominal Output Power	30 kW	50 KW	
lax. Output Power	105% continuously ;	160% for 2s	
Back-up Swtich Time	< 10ms		
Iominal Output Frequency	3/N/PE, 220 V / 380 V; 3/N	/PE, 230 V / 400 V	
lax. Output Current	45.6 A	76 A	
Max. THD of Voltage	< 2%		
AC Data (Generator)			
lax. Input Power	30 kW	50 KW	
Iominal Input Voltage	3/N/PE, 220 V / 380 V; 3/N		
Iominal Input Frequency	50 Hz / 60		
Iominal Input Current	45.6 A	76 A	
Efficiency			
Max. Efficiency	97.8%		
uropean Efficiency	97.4%		
Charging/Discharging Max. Efficiency	98.5%		
General Parameters			
Dimensions (W x D x H)	530 x 880 x 29	00 mm	
Veight	73 kg		
Operating Temperature Range	-25 ~ 60 °C		
Operating Humidity Range	0~95%		
Noise Emission Corrosion Protection Class	62 dB		
	IEC 62109, IEC61000, VDE 4105, \	/DE 4110 TOP-D25 C99	
Compliance	G100, EN50549-1&-10, (		
Battery Technical Specifications			
lodule Model	M38314-	-S	
Module Capacity	12.05 kW	/h	
epth of Discharge (DoD)	95% on grid ; 90	% off grid	
Iominal Voltage	38.4 V		
Max. Charging/Discharging Current	157A*		
lax. Charging/Discharging Current	0 = F0°C (Charging): 20°C	~ 50°C (Discharging)	
	0 * 30 C (Charging) , -20 C	8000 @ EOL 70% **	
perating Temperature Range	, , ,	, , , , , , , , , , , , , , , , , , , ,	
Operating Temperature Range Cycle Life Number of Battery Module	8000 @ EOL 5 ~ 18***	70% **	
Operating Temperature Range Cycle Life Number of Battery Module Dimensions (W x D x H)	8000 @ EOL	70% **	
Operating Temperature Range Cycle Life Number of Battery Module Dimensions (W x D x H) Weight	8000 @ EOL 5 ~ 18***	70% **	

<sup>\*</sup> Max. charge/discharge current derating may occur with changes in temperature and SoC.
\*\* Under specific test conditions.
\*\*\* Max. 12 battery modules per column, up to 2 columns.



### STORION-H30/H50-G3

### Exclusive For Small Business All-in-One Solution

### ► All-In-One Design

The Cabinet contains PCS,batteries,DC/DC,STS and EMS,but only occupies a small area Lower installation cost: Factory pre-installed; energized transport with no on-site battery installation required.

### ► Small Footprint, Great Energy

Single cabinet: 120.5 kWh in 1.5m<sup>2</sup>
With an expansion cabinet: up to 241 kWh
2-hour/4-hour applications

### ► Flexible Configuration

Support DC Couple,AC Couple,Hybrid Couple
PV input: 4\*MPPT with 8 inputs
150% PV power overcapacity

### On-Grid Application

Max 10 systems in on-grid parallel: up to 500kW,2.41MWh
Supports Modbus TCP,Cloud API, for flexible third-party EMS.
Various Modes: Self-consumption, Peak shaving, Power Rationing Support,Dynamic Tarrif Scheduling,Imbalance Trading (Vpp Ready)

### Off-Grid Application

Max 4 systems in off-grid parallel: up to 200kW,964kWh On-/Off-grid switching time≤20ms High compatibility: 400V ±20% 50/60Hz(±5Hz)



### STORION-H30/H50-G3

# PV Panel PV Pan

STORION-	H30/H50-0
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Model	STORION-H30-G3	STORION-H50-G3
System Technical Specification		
System Capacity	72.3 kWh	120.5 kWh
Standard Battery Rack	1	*
Warranty	5 Years Product Warranty (10 years war	ranty optional), 10 Years Battery Warranty
PV Side (DC)		
Max. input power	60 kW	75 kW
Start-up voltage	210	V
MPPT Voltage Range	200 ~ 850 V	330 ~ 850 V
Number of MPPT	4	· ·
Number of Strings per MPPT		2
Max. Input Current	40 A / 40 A	/ 40 A / 40 A
Max. Short-circuit Current	50 A / 50 A ,	/50 A / 50 A
AC side (on-grid)		
Nominal Output Power	30 kW	50 kW
Max. Input Apparent Power	60 kVA	80 kVA
Nominal Grid Voltage	3L/N/PE,220V/380V;2	230 V / 400 V; 240 V / 415 V
Nominal Grid Frequency	50 / 60 Hz	(± 5 HZ)
Max. Output Current	45.5 A	75.8 A
Max.THD of current	< 3	3%
AC Power Factor	0.8 leading	. 0.8 lagging
AC side (off-grid)		
Nominal Output Power	30 kW	50 kW
Max. Output Apparent Power	30 kVA	50 kVA
Nominal Ouput Voltage	3L/N/PE,220V/380V;2	230 V / 400 V; 240 V / 415 V
Nominal Grid Frequency	50 / 60 Hz (± 5 HZ)	
Max. Output Current	45.5 A	75.8 A
Max.THD of voltage		
Overload	< 3%	
	150%	i, IO S
Efficiency	07.00	0.000
Max. Efficiency & European Efficiency	97.8% & 97.2%	
Round-Trip Efficiency (RTE) DC→AC	92	2%
General Parameter		
Dimensions (W x D x H)	1,120 x 1,300	
Battery Module Connection	3 in series	5 in series
Weight	1,700 kg (with	-
Corrosion Protection Class	C4	
Ingress Protection	IP55	
Noise Emission	≤ 65 dB @ 1m	
Operating Temperature Range	-30 °C ~ 50 °C(PCS > 45°C derating)	
Operating Humidity Range	0% ~ 90% (No Condensation)	
Max. operating Altitude	3,000 m / 9,842 ft (> 3,000 m derating)	
Fire-fighting System	Aerosol + Smoke / Temperature Detection	
Cooling Method	HVAC	
Communication	RS485, CAN, Ethernet, Modbus TCP	
Dispatching Protocol		TCP, API
		52477,EN 50549, VDE 4105,VDE 4110,
Compliance		NC RFG,G99/G100

<sup>\*</sup> Max support 2 battery racks, extra battery cabinet is needed.

### **COMPONENTS**

### Battery Module

Parameter



Model	M77314-S 0.5C
Battery Chemistry	LiFePO4
Pack Configuration	3.2 V / 314 Ah @ 1P24S
Internal Resistance	≤ 10 mΩ
Nominal Capacity	24.1 kWh
Nominal Voltage	76.8 V
Operating Voltage Range	69.6 V ~ 84 V
Max. Charging/Discharging Current	157 A
Cycle Life	8,000@EOL 70% **
Operating Ambient Temperature Range	-20 °C ~ 50 °C***
Ingress Protection	IP 20
Communication	CAN
Dimensions (W x D x H)	526 x 814 x 250 mm
Weight	168 kg
Compliance	IEC 61000-1/-2/-3/-4,IEC 62619, IEC 62109, IEC 61000, UL9540A

#### Meter (optional)





Model	DTSU666
Rated Voltage	230 V AC / 400 V AC
Accuracy Class	± 1%
Communication	RS485, Modbus RTU
Dimensions (W x D x H)	72 × 80 × 101 mm
CT Model	AKH-0.66
CT Current Ratio	400/5A
CT Perforation Size	Φ 36 mm

#### extension Battery Cabinet (optional)



Model	Extension Battery Cabinet
Battery	M77314 - S
Rack Capacity	72.3 kWh / 120.5 kWh
Max. Charging / Discharging Current	157 A
Battery Rack Voltage Range	208.8 ~ 252 V / 348 ~ 420 V
Number of Battery Module	3/5 in series
Fire-fighting System	Aerosol + Smoke / Temperatur Detection
Dimensions (W x D x H)	1,120 x 1,300 x 2,050 mm
Weight	1,600 kg (with 5 * M77314 - S)

#### Parallel Backup Box(Optional



Model	Parallel Backup Box
Max. Connection systems	4
Nominal Power	200 kW
Nominal Current	400 A
Nominal Frequency	50/60 Hz
Switching Time	≤ 20 ms
Ingress Protection	IP54
Operating Ambient Temperature Range	-25 °C ~ 50 °C
Dimensions (W x D x H)	600 × 255 × 800 mm
Weight	40 kg







 $<sup>\</sup>ensuremath{^{**}}$  Under specific test conditions.

 $<sup>^{***}</sup>$  Max. charge / discharge current derating may occur with changes in temperature and SoC.

### **STORION-LC-TB125**

### Pre-assembled Liquid-Cooling BESS

The STORION-LC-TB125 is AlphaESS's first liquid-cooling All-in-One storage cabinet for commercial and industrial use. It combines battery modules, PCS, BMS, EMS, and more into a compact 1.5 m2 footprint.

Each unit delivers 125 kW power and 261 kWh capacity, scalable up to 50 units. Featuring Active Balance and powered by the EMS 5.0 platform, thesystem supports API and MODBUS TCP for smart, flexible control across diverse applications like peak shaving, microgrids, and self-consumption.

#### ▶ Plug & Play, Quick Deployment

- Factory-assembled with PCS, EMS, BMS, BMS, battery modules, liquid cooling, and fire suppression
- 125 kW inverter, 261.2 kWh per cabinet, up to 522.4 kWh per system. Supports up to 50 units in paralle

#### ► High Efficiency, Smarter Returns

- Liquid-Cooling System and precision thermal control powering stabpility, safety, and efficiency
- 290% System Efficiency maximizes energy utilization and conversion
- BMS: Active balance technology imporves cell consistencyextends battery life by 10%+, and delivers 23x efficiency than passive balancing
- Accelerated ROI: High performance meets smart economics-achieves ROI in as fast as 3 years with multiple revenue streams

#### ► Thermal Management, Intelligent O&M & Business Continuity

- Smart Thermal Control System: Monitors cell temperatture and adjusts cooling dynamically
- Latest EMS 5.0 Platform: Compact with API and MODBUS TCFP for smart and flexible control
- Integrated Fault Diagnosis: Accurate issue detection via builtin EMS tools
- Multi-platform O&M: Support intelligent customer managemnent and improve efficiency
- Seamless Backup (<20ms): STS enables instant grid/off-grid switching, ensuring uninterrupted power for critical loads.(optional)



### **STORION-LC-TB125**

### System Diagram PV Inverter **PV Panel** Meter 0 0 0 On-grid Load Meter (<del>0</del> <del>/</del> <del>/</del> Diesel **Engine** Backup Load STORION-LC-TB125

STORION-LC-TB125	
System Parameter	
Battery Chemistry	LiFePO4
Energy Capacity	261.2 kWh per Cabinet
Warranty	5 Years Product Warranty (10 years warranty optional), 10 Years Battery Warranty
AC side (on-grid)	
Nominal Output Power	125 kW
Max. Output Apparent Power	137.5 kVA
Nominal Grid Voltage	400 V(±15%), 3L/N/PE
Nominal Grid Frequency	50 / 60 Hz (± 5 Hz)
Max.THD of current	< 3 % (Nominal Power)
AC Power Factor	1.0 leading ~ -1.0 lagging
AC side (off-grid)	
Nominal Output Power	125 kW
Nominal Voltage	400 V 3L / N / PE
Frequency	50 / 60 Hz
Overload	110% Continuous; 120% 1 min
Backup Switch Time (with extra STS)	≤ 20ms
Max.THD of voltage	< 3 % (Linear Power)
Efficiency	
Max. Efficiency	97%
System Efficiency (RTE)	90.6%
General Parameter	
Dimension(W x D x H)	1003 x 1500 x 2482 mm *
Battery Modules Connection	5 Modules in Series
Weight	2.9 t *
Corrosion Protection Class	C4
Ingress Protection	IP 55
Noise Emission	< 70 dB @1m **
Operating Ambient Temperature Range	-20 °C ~ 50 °C (> 45 °C Derating)
Operating Humidity Range	0 ~ 95 % RH
Max Operating Altitude	3000 m(> 2000 m Derating)
Fire-fighting System	Aerosol (Pack & Rack)+ Sprinkler + Smoke / Temperature Detection
Communication	CAN, RS485, USB, LAN, WIFI
Dispatching Protocol	Modbus TCP, API
Compliance	IEC 62477, IEC 61000, IEC 62109, IEC 61727,IEC 62116, EN 50549-1&2&10, VDE 4105/4110/4120, G99, TOR, C10/11

<sup>\*</sup> The dimension and weight do not include STS cabinet.



### **COMPONENTS**

Model	STORION-LC-TB125
Battery Cluster System	
Data	Ae Apriess

Battery Module	M166314-S
Battery Chemistry	LiFePO4
Pack Configuration	3.2 V / 314 Ah @ 1P52S
Internal Resistance	≤10 mΩ
Nominal Capacity	52.124 kWh
Rated Voltage	166.4 V
Operating Voltage Range	140.4 ~ 187.2 V
Rated Charing/Discharging Power	26.062 kW (0.5 P)
Cycle Life	8000 @ EOL 70% *
Operating Ambient Temperature Range	-30 °C ~ 55 °C **
Ingress Protection	IP 67
Communication	CAN
Dimensions (W x D x H)	810 x 1125.5 x 237.5 mm
Weight	333 kg
Compliance	IEC 62619, IEC 62477, IEC 61000, UL9540A





Model	DTSU666
Rated Voltage	230 V AC / 400 V AC
Accuracy Class	±1%
Communication	RS485, Modbus RTU
Dimensions (W×D×H)	72 x 80 x 101 mm
CT Model	AKH-0.66, K-30×20
CT Current Ratio	400 / 5 A
CT Perforation Size	32 x 22 mm



Model	STORION-LC261
Battery	M166314-S
Cluster Capacity	261.2 kWh per Cabinet
Rated Charging/Discharging Power	130.6 kW(0.5P)
Battery Cluster Voltage Range	702 ~ 936 V
Battery Rack	5 Modules in series
Fire-Fighting System	Aerosol (Pack & Rack)+ Sprinkler + Smoke / Temperature Detection
Dimensions (W×D×H)	1003 x 1500 x 2482 mm
Weight	2.7 t



Model	ALPSTS-300-O
Nominal Power	300 kW
Nominal Frequency	50 / 60 Hz
On- / Off- grid switching time	≤ 20 ms
Weight	~ 120 kg
Dimension (W x D x H)	473 x 752 x 1080 mm
Max. Operating Altitude	3000 m (> 2000 m derating)
Ingress Protection	IP 55
Corrosion Protection Class	C4





<sup>\*\* &</sup>lt; 75dB @ 1m when STS cabinet is installed.

<sup>\*</sup>Under specific test conditions.
\*\*Max. charge/discharge current derating may occur with changes in temperature and SoC.

## ALPHA CLOUD & EMS



### Monitoring

- 10-second real-time system data updates, real-time selfcheck & fault warning system, predict anomalies in advance, reduce labor costs
- Enhanced monitoring of multi-level real-time core-level information
- Grouping management system, batch setup system, improve the efficiency of operation and maintenance

### Security

- Built-in communication encryption localized European data center for cybersecurity
- End-to-end data security for peace of mind.

### Visualization

- Provide BI dashboard and rich statistical charts for business insights

### Adaptiveness

- Customized strategies to support Self-Consumption, Time-Sharing Control, Peak Shaving, Power Rationing Support, SOC Balancing, Power backup, and Dual Power
- Support Modbus TCP and API connection

### Intelligence

- Cloud platform with remote diagnostics, EMS upgrades, and multi-platform integration
- AI dynamic tariff scheduling strategy with PV forecasting
- VPP Ready



## AFTER-SALES SERVICE





### **Reliable Local Support**

- Local engineer teams across Europe
- Quick on-site response through regional dispatch
- Local spare parts warehousing ensures faster repairs



### 24/7 Protection & Professional Support

- Pevents issues and ensures uptime
- Emergency support available in English, German, Dutch, Italian, etc.
- Regular system check-ups and performance evaluations



### **Easy & Transparent Service Process**

- Intelligent dispatch platform with automatic job assignment
- Real-time tracking of service progress
- Clear procedures from start to finish, with archived service records and customer feedback tracking



### **Training & Empowerment for Installers**

- Local training centers + online training support
- Complete installer toolkits: manuals, commissioning guides, FAQs
- Project initiation support and on-site installation assistance



### **Standardized Service for Consistent Experience**

- Fully standardized service protocols across regions
- Committed service response time guarantees
- Unified technical acceptance criteria for quality assurance

### A DECADE OF LOCAL COMMITMENT

For over a decade, AlphaESS has built a reliable and responsive ecosystem across Europe — not just selling products, but delivering service with accountability and local insight.

- Established Technical Service Centers in Europe
- Local Engineering Teams familiar with regional regulations and customer expectations
- Continuous Optimization of service models to align with European market feedback
- 10 Years of Proven Performance, empowering local partners and users with dependable solutions
- Long-Term Investments in local warehousing, training hubs, and tech support resources

10 VEADS IN FLIDODE

Served over 90,000

households and C&I users

Installed Power over

800 MW

Installed Capacity over

1.2 **GWh** 













### GIOBAL CASES

Unlocking the Potential of C&I Energy Systems



50kW / 136kWh

PV + STORAGE | SOMERSET, UNITED KINGDOM



50 kW / 51 kWh

PV + STORAGE I WOLFSBERG, AUSTRIA





50kW/100kW & 100kWh-300kWh

SOLAR-BATTERY-DIESEL MICROGRID SYSTEM I ASIA



PV + STORAGE | LITHUANIA



140MW / 280MWh + 80MW / 160MWh

PEAK SHAVING AND FREQUENCY REGULATION I CHINA



500 kW / 1 MWh

PV + STORAGE + GENSET | AFRICA

