TO MAKE GLOBAL ELECTRICITY USAGE
MORE EFFICIENT,MORE STABLE, MORE SUSTAINABLE

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SAV Digital Power

SAV GREEN AND LOW-CARBON SOLUTION PROVIDER

Product Catalog



ZHEJIANG SAV DIGITAL POWER TECHNOLOGIES CO.,LTD

ABOUT SAV

Company Introduction

ZHEJIANG SAV DIGITAL POWER TECHNOLOGIES

Headquartered in Jiaojiang District, Taizhou City, Zhejiang Province, ZHEJIANG SAV DIGITAL POWER TECHNOLOGIES focuses on the field of industrial and commercial digital energy, with the important mission of "To make global electricity usage More Efficient, More Stable, More Sustainable". It centers on energy storage business, develops photovoltaic-storage, storage-charging, AIDC (Advanced Internet Data Center) and light-duty power solutions, and integrates digital technology with power electronics technology to facilitate the energy transformation of industrial and commercial sectors.

The company has always regarded technological R&D as the core driving force for its development, investing over 8% of its annual sales revenue in R&D. It has built an R&D team mainly composed of masters and doctors, and continuously explores and researches cutting-edge technologies such as artificial intelligence and controllers. Its business covers more than 110 countries, with a distribution network of over 2,000 partners, serving more than 2 million high-energy-consuming customers.

With a global perspective to layout its future development, the company takes customers as the center, focuses on customer needs, and is committed to providing high-value products and services to jointly build a green future.

Corporate culture

Mission:
To make global electricity usage More Efficient, More Stable, More Sustainable.

Vision:
To become the world's leading digital energy technology pioneer.

Values:
Customer First · Practical Innovation · Collaborative and Respectful · Co-creating and Sharing.

300+
R&D PERSONNEL

30GWh
PRODUCTION CAPACITY

500+
CHANNEL PARTNERS

1700+
IMPLEMENTED PROJECTS

8%
R&D INVESTMENT RATIO

45%
R&D PERSONNEL RATIO

Product Introduction

Storage Elf L1
-Small And Medium-Sized Industrial And Commercial Full-Connection Energy Storage

■ Light, storage, charging and backup, plug and play

Industry first

- ➤ Four-dimensional Rubik's Cube technology
- ➤ Raytheon Flash Cutting Technology-Customization
- ➤ No additional PV inverter required, enabling quick wiring



Technical Parameters

Product Model	L1			
DC Side				
Cell Specifications	LFP			
Nominal Energy	80kWh	96 kWh	112 kWh	128 kWh
Voltage Range	224~292V	269~350V	314~409V	358~467V
Off-grid Parameters（Optional）				
On-Grid/Off-Grid Switching Time	≤ 20ms			
Nominal Output Voltage	380V/400V			
Nominal Output Frequency	50/60Hz			
Peak Power Output	200%	170%	150%	130%
PV Side（Optional）				
Max. PV Input Power	70kW			
MPPT Voltage Range	438~900V（< 438V optional）			
No. of independent MPPT inputs	1			
Max. Efficiency	99%			
On-grid Parameters				
Nominal Power	40kW	48kW	56kW	64kW
Max. AC Power	100kW			
Nominal Grid Voltage	380V/400V			
Grid Voltage range	-15%~ + 10%			
Nominal Grid Frequency	50/60Hz			
Grid Frequency range	±10%			
THDi	≤ 3% (Nominal Power)			
Power Factor Range	-1~1			
System Parameter				
Dimensions(W×H×D)	1150×2000×1050mm			
Weight	≤ 1270kg	≤ 1380kg	≤ 1490kg	≤ 1600kg
Max. Cycle Efficiency	90%			
Cooling Method	Intelligent Air Cooling			
Working Temperature Range	-30~50℃（> 45℃ derating)			
Working Humidity Range	0~100%RH（no condensation）			
Altitude	4000m（> 2000m derating）			
Fire Fighting System	Temperature & Smoke Detector，Aerosol			
Communication Interfaces	RS-485/Ethernet			
Communication Protocol	Modbus RTU/Modbus TCP			
Ingress Protection	IP55			
Corrosion Category	C3/C5			
Access Method	3P4W			
Standard	UN 38.3，UN 3536，IEC 61000，IEC 62619，IEC 62477，IEC 60730，IEC 62933，UL 9540A			

Product Introduction

Storage Angel S1
-Industrial And Commercial Energy Storage Cabinet

1.2 m² — **Small Volume**

1.2 m², extremely small Floor Space in the Industry

225 kWh — **High Energy Capacity**

225 kWh, extremely high Density in the Industry

92 % — **High Conversion Rate**

Maximum System Conversion Efficiency of 92%

Ultimate Safety

Two-Level Linked Fire Protection Solution, Four-Level Safety System



Technical Parameters

Product Model	S1
DC Side	
Cell Specifications	LFP
Nominal Energy	225kWh
Voltage Range	627~818V
AC Side	
Nominal Power	100kW
Nominal Grid Voltage	380V/400V
Grid Voltage range	-15%~ + 10%
Nominal Grid Frequency	50/60Hz
Grid Frequency range	±10%
Access Method	3P4W
THDi	≤ 3% (Nominal Power)
Power Factor Range	-1~1
System Parameter	
Dimensions(W×H×D)	1150 ×2400×1050mm
Weight	≤ 2100kg
Max. Cycle Efficiency	92%
Cooling Method	Intelligent Air Cooling
Working Temperature Range	-30~50℃ (> 45℃ derating)
Working Humidity Range	0~100%RH（no condensation）
Altitude	4000m （> 2000m derating）
Fire Fighting System	Temperature & Smoke Detector，Aerosol
Communication Interfaces	RS-485/Ethernet
Communication Protocol	Modbus RTU/Modbus TCP
Ingress Protection	IP55
Corrosion Category	C3/C5
Standard	UN 38.3，UN 3536，IEC 61000，IEC 62619，IEC 62477，IEC 60730，IEC 62933，UL 9540A

Product Introduction

Efficiency King S2
-High efficiency means high returns

Over USD 42,420 in Additional Profits Throughout the 1MWh Full Lifecycle

92.9%
Maximum system conversion efficiency of 92.9% @ 0.25C

Industry first

- Dual-engine air-liquid intelligent cooling technology
- Stacked Solar Energy Storage Technology Zero Floor Space
- AI all-time balance

All-new upgrade

- SiC-PCS
- Ultra-High Energy Density
- Multiple Safety Protections



Technical Parameters

Product Model	S2
DC Side	
Cell Specifications	LFP
Nominal Energy	261kWh
Voltage Range	650~949V
AC Side	
Nominal Power	125kW
Nominal Grid Voltage	380V/400V
Grid Voltage range	-15%~ + 10%
Nominal Grid Frequency	50/60Hz
Grid Frequency range	±10%
Access Method	3P4W
THDi	≤ 3% (Nominal Power)
Power Factor Range	-1~1
System Parameter	
Dimensions(W×H×D)	980×2300×1350mm
Weight	≤ 2500kg
Max. Cycle Efficiency	92.9%
Cooling Method	Dual-Engine Wind-Fluid Intelligent Cooling
Working Temperature Range	-30~50℃ (> 45℃ derating)
Working Humidity Range	0~100%RH（no condensation）
Altitude	4000m（> 2000m derating）
Fire Fighting System	Temperature & Smoke Detector，Aerosol，Water Fire Protection Interface
Communication Interfaces	RS-485/Ethernet
Communication Protocol	Modbus RTU/Modbus TCP
Ingress Protection	IP55
Corrosion Category	C3/C5
Standard	UN 38.3，UN 3536，IEC 61000，IEC 62619，IEC 62477，IEC 60730，IEC 62933，UL 9540A

Product Introduction

Storage King X3
-Giant Capacity, Flexible & Efficient

It supports 2H, 3H, and 4H systems, and can be expanded to 4.5MW or 16.7MWh

Flexible "containers" offer more freedom in configuration

92.9%
Higher Energy Density, Up to 92.9% @ 0.25C

Less space requirement—— 30% area saving

20-foot (6 units) + 10-foot container (step-up transformer)

6mX2.43m+3.03mX2.43m=**21.94 m²**




VS

Two 20-foot containers (battery compartment + step-up integrated machine)

6.06mX 2.43mX2=**29.45 m²**




Industry first

- Modular distributed design
- Dual-engine air-liquid intelligent cooling technology
- Stacked Solar Energy Storage Technology Zero Floor Space
- AI all-time balance

All-new upgrade

- SiC-PCS
- Multiple safety protections



Technical Parameters

Product Model	X3			
DC Side				
Cell Specifications	LFP			
Nominal Energy	836kWh			
Voltage Range	1040~1497.6V			
AC Side				
Nominal Power	418kW		209kW	
Nominal Grid Voltage	690V	800V	690V	800V
Grid Voltage range	-15%~ + 10%			
Nominal Grid Frequency	50/60Hz			
Grid Frequency range	±10%			
Access Method	3P3W			
THDi	≤ 3%(Nominal Power)			
Power Factor Range	-1~1			
System Parameter				
Dimensions(W×H×D)	1000×3300×2400mm			
Weight	≤ 8000kg			
Max. Cycle Efficiency	92.9%			
Cooling Method	Dual-Engine Wind-Fluid Intelligent Cooling			
Working Temperature Range	-30~50℃ (> 45℃ derating)			
Working Humidity Range	0~100%RH（no condensation）			
Altitude	4000m（> 2000m derating）			
Fire Fighting System	Temperature & Smoke Detector，Aerosol, Water Fire Protection Interface			
Communication Interfaces	RS-485/Ethernet			
Communication Protocol	Modbus RTU/Modbus TCP			
Ingress Protection	IP55			
Corrosion Category	C3/C5			
Standard	UN 38.3，UN 3536，IEC 61000，IEC 62619，IEC 62477，IEC 60730，IEC62933，UL 9540A			

Product Introduction

X7

Product Features

- Reduce Investment: Reduced Footprint, Intelligent Liquid Cooling, Ultra-Long Lifespan Battery Cells
- Highly Integrated: Single-Door Design, Flexible Installation & Maintenance, Back-to-Back Installation
- Ultimate Safety & Reliability: Multiple Electrical Safety, Structural Strength, Fire Protection Design
- Ultimate Efficiency & Intelligence: Cloud-Based AI O&M, Health Status Prediction, Remote Diagnosis



Technical Parameters

Product Model	X7
PACK Parameter	
Capacity	104.5kWh
Cell Type	LFP 314Ah
Grouping method	1P104S
Nominal voltage	332.8V
Operating voltage	291.2V~374.4V
Operating temperature	0~55℃（charging） -30~55℃（discharging）
System dimensions（W*H*D）	790×253×2150mm
Weight	680kg
Degree of protection	IP67
System Parameter	
Cell Type	LFP 314Ah
Rated capacity	5015.9kWh
Grouping method	12P416S
Nominal voltage	1331.2V
Operating voltage	1123.2~1496.7V
Rated power	2508kW
Operating temperature	0~55℃（charging） -30~55℃（discharging）
Humidity	≤ 95% non-condensing
Altitude	≤ 2000m
System dimensions（W*H*D）	6058×2896×2438mm
System weight	45t
Degree of protection	IP55
Cooling method	Dual-Engine Wind-Fluid Intelligent Cooling
Auxiliary power	400Vac 50Hz
Communication mode	CAN,RS485,ModbusTCP
Fire-fighting measures	Perfluorohexanone Full cabinet water firefighting Explosion-proof fan Aerosol
Certification Standard	IEC62619, IEC63056, IEC60730,IEC62933, IEC62477,IEC61000,UN38.3

Product Introduction

X7 MAX

Product Features

- High Efficiency：RTE ≥ 94%@2h，RTE ≥ 96%@4h
- Dual-Engine Wind-Liquid Intelligent Cooling: Low Power Consumption, Long Lifespan
- Top Heat Dissipation & Exhaust Air: Mitigates the Heat Island Effect, Improves PCS Operating Efficiency
- Ultimate O&M: Based on AI Intelligent Cloud Platform, Reduces On-Site O&M Workload, Ensures Ultra-High Availability Rate
- Low Investment Cost: Ultra-Large Capacity, Saves 20% Floor Space, Supports Back-to-Back Installation



Technical Parameters

Product Model	X7 MAX
PACK Parameter	
Configuration	1P52S
Nominal Voltage	166.4v
Recommended Charging Voltage	145.6V~187.2V
Standard Charge	0.5P
Charge	≥ 94%
Operating temperature	0~55℃（charging）
	-30~55℃（discharging）
System dimensions（W*H*D）	798×245×2180mm
Weight	680kg
Degree of protection	IP67
System Parameter	
Cell Type	LFP 628Ah
Rated capacity	5015.9kwh
Grouping method	1P416S*6
Nominal voltage	1331.2V
Operating voltage	1164.8~1496.7V
Rated power	3125kW
Operating temperature	-30~55℃（discharging）
Humidity	≤ 95% RH, non-condensing
Altitude	≤ 4000m; reduction applies above 2000m
System dimensions（W*H*D）	6058×2896×2438mm
System weight	45t
Degree of protection	IP55
Cooling method	Battery Liquid Cooling Electrical Cabin Environmental Air Conditioning
Auxiliary power	AC400V@50Hz/60Hz
Communication mode	CAN,RS485,Ethernet
Fire-fighting measures	Temperature Sensing Smoke Sensing Combustible Gas Detection Explosionproof Ventilation Perfluorohexanone Fire Suppression System Water Sprinkler
Certification Standard	IEC62619, IEC63056, IEC60730,IEC62933, IEC62477,IEC61000,UN38.3

Lightweight Power Battery Pack

D3 SuperRide

- Ultra-Long Lifespan – No Cell Replacement Needed for 5 Years

- Grade A+ Cells
- AnQi-Core BMS Technology
- CloudPioneer GPS Tracking
- Custom Development Supported



Technical Requirements	Design Parameters
Overall Dimensions	621x270x290mm
Battery Cell Selection	166.5Ah
Packaging Configuration	1P19S
Rated Voltage	60.8V
Rated Energy	10.12KWh
Protection Class	IP55
Maximum Charging Current	50A
Maximum Discharging Current	120A
Weight	72+2kg
Design Life	5 Years / 400,000 km (80% SOH)

D3 SuperRide（5kWh/6kWh）

- Ultra-Long Lifespan – No Cell Replacement Needed for 5 Years

- Grade A+ Cells
- AnQi-Core BMS Technology
- CloudPioneer GPS Tracking
- Custom Development Supported



5kWh



6kWh

Technical Requirements	Design Parameters	Design Parameters
	5kWh	6kWh
Overall Dimensions	450x345x206mm	307x427x260mm
Battery Cell Selection	100Ah	125Ah
Packaging Configuration	1P16S	1P16S
Rated Voltage	51.2V	51.2V
Rated Energy	5.12kWh	6.4kWh
Protection Class	IP55	IP55
Maximum Charging Current	50A	50A
Maximum Discharging Current	80A	80A
Weight	41±2kg	49±2kg
Design Life	5 Years / 400,000 km (80% SOH)	5 Years / 400,000 km (80% SOH)

Smart Energy Management Platform

- Full-Lifecycle Management
- Visual Monitoring
- Intelligent Operation and Maintenance

Energy Storage Cloud	• One Platform for All Stations • Proactive Anomaly Alerts, Early Fault Detection • Automatic Report Generation, Data-Driven Decision-Making
Monitoring Dashboard	• One Dashboard for a Comprehensive View, Enabling More Accurate Decision-Making • Stations at a Glance, Every Detail Under Control
EMS Manager	• Equipment Automatically Adapts to Optimal Strategies • Automatic Electricity Cost Optimization, Full Utilization of Peak-Valley Price Differences
Data Terminal	• Manage Stations Anytime, Anywhere, Doubling O&M Efficiency



Certification qualification

SAV products have
passed multiple international certifications

CE

TÜVRheinland CERTIFIED

UN38.3

PICC

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