

Smart Storage Safe Power Sustainable Future

Wincle Energy Pte. Ltd.

Telephone

+86-731 **8256 6160** (CHN)

+65 **9622 5139** (SGP)

+1 (0) **919 888 7886** (USA)

WhatsApp

+86 **181 7589 6293**

ADD:

CHN - 38th Floor, North Tower, Jinmao Plaza, Yuelu District, Changsha City, Hunan Province, China

SGP - No.79 Lantor Street, Singapore 786789

USA - 5900 Balcones Drive Suite 100 Austin TX, 78731 USA

ITA - Via Messina 17, 20154 - Milano (MI) - IT

DEU - Am Kronberger Hang 2, 65824 Schwalbach am Taunus, Germany



Wenergy Storage |

www.wenergystorage.com
export@wenergypro.com



Energy Storage Portfolio

Innovative Solutions for Global Energy Challenges

Wincle Energy Pte. Ltd.

About Wenergy

1 Headquarter in Singapore

5 Global Branches

15Years Battery Cell Manufacturing

15GWh Annual Capacity

660,000+m² R&D and Production Base

60+ Countries / Regions Exported To
(30+ Countries in Europe)



Focus on Innovation, Full-Chain Layout

From Cathode Materials and Battery Cells to Modules and Smart ESS Solutions

R&D Production Bases



Aerial View



Integration Workshop



Cathode Material Production



Battery Cell Manufacturing



Battery Pack Assembly



BESS Integration & Commissioning

Global Service Network

- ◆ On-Time Delivery
- ◆ Hassle-Free After-Sales Service
- ◆ Fast and Responsive Technical Support



Offices

Singapore, China, USA, Germany, Italy, Chile

Overseas Warehouse

Rotterdam, Netherlands

20+ Industries Served with Tailored Solutions

(Cement Industry, Industrial Manufacturing, Textile Industry, Electronic Industry, Environmental Protection Industry, Paper and Printing Industry, Data Centers...)

200+ Projects on Track

Wenergy Solutions

- ◆ PV+Storage Integration
- ◆ Frequency Regulation
- ◆ Backup Power Supply
- ◆ Peak-Valley Arbitrage

Software-Defined Energy Management

- *Enables integration with customer-owned EMS systems.
- *Real-Time Price Capture & Automated Trading (Local Market Tuned)

Cloud-based BMS Optimization

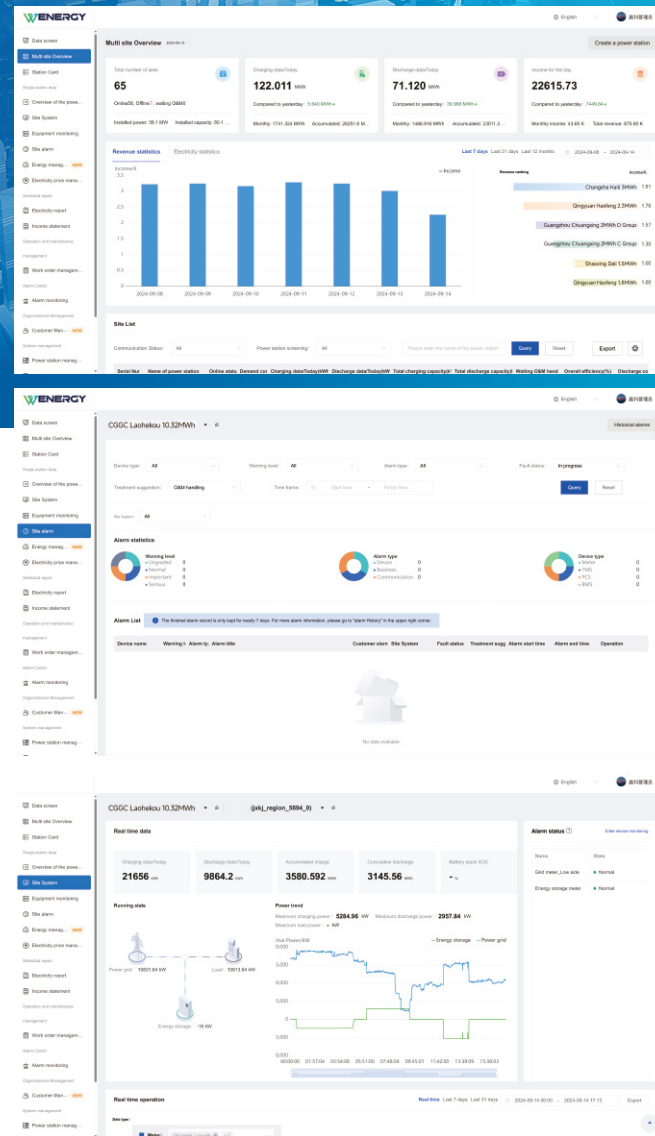
- Dual-processor architecture
- 4KHz real-time monitoring
- Cloud-based balancing optimization
- 90% diagnostic coverage

Multi-protocol Compatible EMS

- AI-powered energy forecasting
- Open EMS API integration
- 100+ protocol support
- Millisecond-level response

Unified Control Platform

- Remote monitoring & diagnostics
- Cross-platform mobile access
- Health & performance analytics



Application Cases

CEEC-CGGC Group Project Cluster

CGGC-Laohekou Cement ESS Project
10.2MW / 20.64MWh

CGGC-Jiayu Cement ESS Project
10.2MW / 20.64MWh

CGGC-Yicheng Cement ESS Project
13.6MW / 27.52MWh

CGGC-Zhongxiang Cement ESS Project
6.9MW / 13.76MWh

CGGC-Gezhouba Special Cement ESS Project
5.725MW / 11.44MWh



Quality Assurance

Globally Certified Excellence in C&I Energy Storage Solutions

Global Certification **UN38.3** American Standard **UL** UL 1973, UL 9540, UL 9540A **FCC** FCC Part 15B **NFPA** NFPA 69

European Standard **RoHS** **REACH** **IEC** IEC62619, IEC60730, IEC61000, IEC63056, IEC62477, IEC62933, IEC60529 **ISO** ISO13849 **RF/EMC**

Grid-connected Certification **VDE** VDE 4105, VDE 4110, VDE 4120 **G99** CEI 0-16, CEI 0-21 **EN 50549-1** EN 50549-10 **UNE 217002** UNE 217001

TOR Erzeuger **Polish Grid Code A3** **NTS 631**

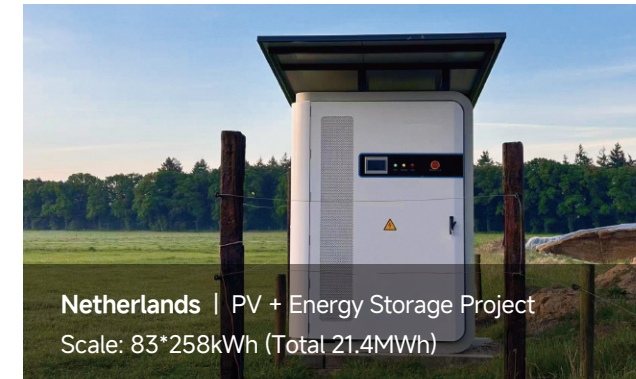




Bulgaria | PV + Grid-side Energy Storage
Scale: 1.725MW/3.85MWh



USA | Integrated PV-Storage DC Charging Project
Scale: 1.5MW/6.95MWh DC-coupled BESS



Netherlands | PV + Energy Storage Project
Scale: 83*258kWh (Total 21.4MWh)



Netherlands | C&I Energy Storage Project
Scale: 20MW/41.28MWh



Zambia | PV-Storage-Diesel Off-Grid Operation
Scale: 3.45MW/7.7MWh



Zimbabwe | PV-Storage-Diesel Off-Grid Operation
Scale: 12MW/24MWh



Austria | C&I Energy Storage Project
Scale: 1.75MW/3.86MWh



Austria | C&I Energy Storage Project
Scale: 2*125kW/289kWh



Bulgaria | PV + C&I Energy Storage Project
Scale: 0.875 MW/1.8 MWh



Bulgaria | PV + Storage Project
Scale: 1MW/2.31MWh



UK | Agricultural Energy Storage Project
Scale: 125kW/289kWh



Germany | C&I Energy Storage Project
Scale: 20kWp PV+258kWh ESS Cabinet



Bulgaria | C&I Energy Storage Project
Scale: 3*125kW/289kWh



Poland | C&I Energy Storage Project
Scale: 2*125kW/258kWh



Czech Republic | C&I Energy Storage Project
Scale: 60kW/96kWh



China | Mobile Energy Storage Project
Scale: 16.7MW / 34.7MWh

Wenergy Products

Turtle Series Container ESS | 3.85 / 5 / 6.25 MWh



◆ Applications

Utility-Scale Renewable Integration

Industrial & Commercial ESS

Remote/Off-Grid Power

Emergency Energy Storage

◆ Key Highlights

Reduced Cost

- One-stop system, easy install & low maintenance
- Large module design, 50% more efficient

Safety

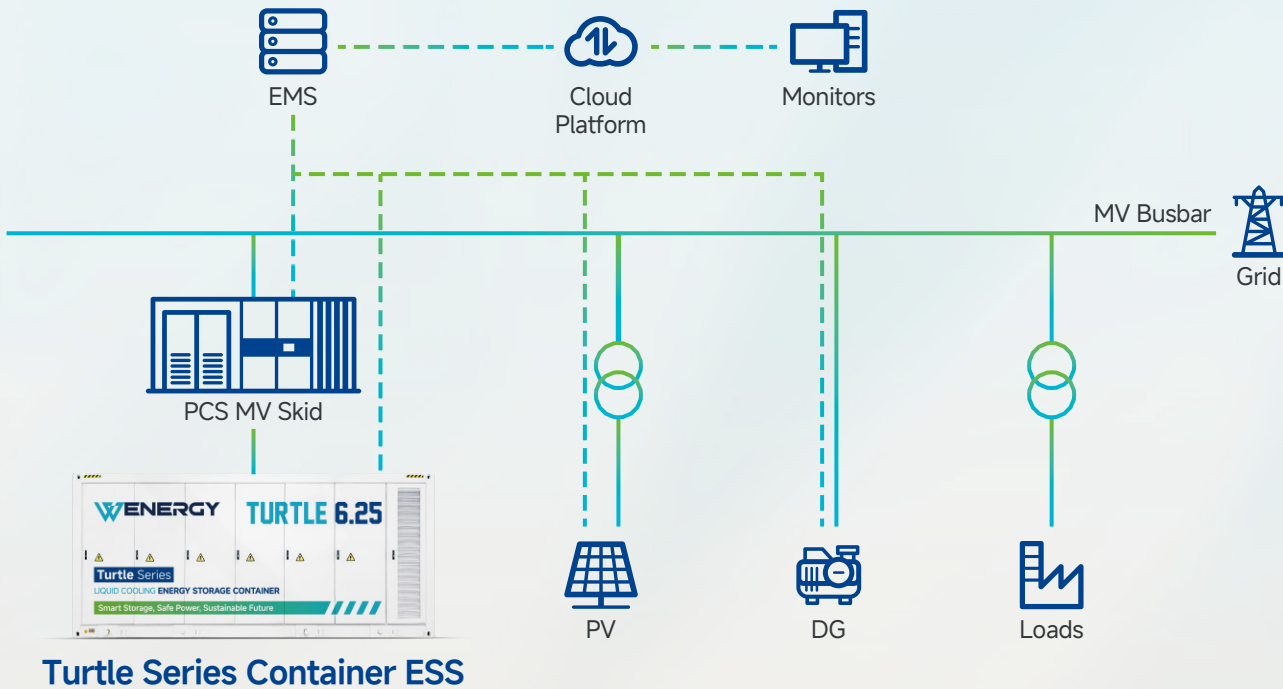
- Balanced batteries for longer life
- Dual fire suppression for extreme safety

High Efficiency

- 1500V platform, 89% RTE efficiency
- C4H anti-corrosion, 15+ years lifespan

Smart

- Fast fault detection & localization
- Cloud monitoring, 24/7 unattended



◆ Products Parameters

Model	Turtle CL3.85	Turtle CL5	Turtle CL6.25
Battery Type	LFP 314Ah	LFP 314Ah	LFP 587Ah
Rated Energy	3.85 MWh	5.016 MWh	6.25 MWh
DC Rated Power	1925 kW	2500 kW	3125 kW
DC Rated Voltage	1228.8V	1331.2V	1331.2V
DC Voltage Range	1075.2V ~ 1382.4V	1164.8V ~ 1497.6V	1164.8V ~ 1497.6V
DC Efficiency	94%		
IP Protection Level	IP55		
Anti-corrosion Level	C4H		
Weight	≈36T	≈43T	≈52T
Cooling Type	Liquid Cooling		
Noise	<75 dB (1m Away from the System)		
Communication Interface	Wired: LAN, CAN, RS485		
Communication Protocol	Modbus TCP/CAN2.0		
System Certification	IEC 60529, IEC 60730, IEC 62619, IEC 62933, IEC 62477, IEC 63056, IEC/EN 61000, UL 1973, UL 9540A, UL 9540, CE Marking, UN 38.3, TÜV Certification, DNV Certification, NFPA69, FCC Part 15B.		

Stars Series Cabinet ESS

◆ Key Highlights

- 90% System Efficiency
- Advanced Protection System
- Instant Fire Safety
- Smart Monitoring
- Flexible Integration



◆ Products Parameters Stars 261 kWh

Model	Stars CL261
Rated Energy	261kWh
DC Voltage Range	728~936V
Rated Power	125kW
AC Rated Voltage	400V
Rated Frequency	50/60Hz
IP Protection Level	IP55
Anti-corrosion Level	C4H
Cooling Method	Intelligent Liquid Cooling (Automatic Refilling Function)
Noise	<75dB (1m Away from the System)
Dimention(W*D*H)	(1012±10)*(1380±10)*(2270±10)mm
Communication Interface	RS485/LAN/CAN
Communication Protocol	Modbus/IEC104/MQTT
System Certification	IEC/EN 62619:2022, IEC 60529, IEC/EN 62477-1, EN 61000-6-2, EN 61000-6-4, 2012+A1:2021, UN 38.3

◆ Products Parameters Stars 96/144/192 kWh

Model	Stars CL192Pro - 125		
Rated Energy	96.46kWh	144.69kWh	192.92kWh
DC Voltage Range	240~350.4V	360~525.6V	480~700.8V
AC Rated Power	125kW		
AC Rated Voltage	400V		
Rated Frequency	50/60Hz		
IP Protection Level	IP55		
Anti-corrosion Level	C4H		
Cooling Method	Liquid Cooling		
Noise	<75dB（1m Away from the System）		
Dimention(W*D*H)	(1800±10)*(1435±10)*(2392±10)mm		
Communication Interface	Ethernet		
Communication Protocol	Modbus TCP/IP		
System Certifications	IEC 62619, IEC 60730-1, IEC 63056, IEC/EN 62477, IEC/EN 61000, IEC/EN 61851, IEC/EN 62311, UL1973, UL9540A, EN 301 489, EN 301 908, CE Marking, UN 38.3, TÜV Certification, DNV Certification		
*Standard: PCS、DCDC Optional: MPPT (60kW)、STS、ATS、AC EV Charger (22kW*2)			

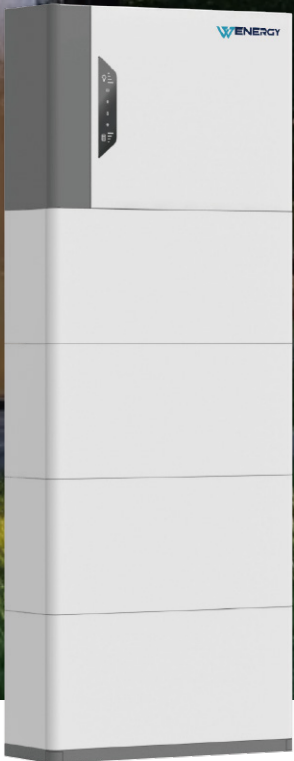
◆ Products Parameters Stars 258/289/385 kWh

Model	Stars CL258Pro	Stars CL289Pro	Stars CL385Pro
Rated Energy	258kWh	289kWh	385kWh
DC Voltage Range	720~1000V	720~1000V	960~1401.6V
Rated Power	125kW	125kW	/
AC Rated Voltage	400V	400V	/
Rated Frequency	50/60Hz	50/60Hz	/
IP Protection Level	IP55		
Anti-corrosion Level	C4H		
Cooling Method	Liquid Cooling		
Noise	<75dB (1m Away from the System)		
Dimention(W*D*H)	(1588±10)*(1380±10)*(2450±10)mm		1578mm*1380*2500mm
Communication Interface	RS485/CAN		
Communication Protocol	Modbus TCP/CAN2.0		
System Certification	IEC 62619, IEC 60730-1, IEC 63056, IEC/EN 61000, IEC/EN 62311, IEC 60529, IEC 62040 or 62477, EN 301 489, EN 301 908, ISO 13849, RF/EMC, UKCA (IEC 62477-1), UKCA (CE-EMC Transfer), UL1973 ^[1] , UL9540A ^[1] , UN 38.3		

[1]. UL1973 and UL9540A are for Stars CL385Pro only.

Great Wall Series Residential ESS (High Voltage)

- Wide Environmental Compatibility
- High Safety
- Long Service Life
- IP66 Rating
- High Usage



◆ Products Parameters

Model	GW-(7.6~22.7)-H-8K	GW-(7.6~22.7)-H-10K	GW-(7.6~22.7)-H-12K
Battery System Energy	7.6 / 11.4 / 15.2 / 19 / 22.7kWh		
Number of Battery Modules	2 / 3 / 4 / 5 / 6		
Rated Battery Voltage	204.8 / 307.2 / 409.6 / 512 / 614.4V		
Recommended Max. PV Input Power	15kW		
Recommended Charging/Discharging Current	12kW	18.5A	18kW
Max. Charging/Discharging Current	37A		
System Dimensions (W*H*D)	670*(1135/1450/1765/2080/2395)*230mm		
System Net Weight	117 / 155 / 193 / 231 / 269kg		
Communication	RS485 / WLAN / Bluetooth / DRY / DRM / Meter, LAN / 4G(Optional)		
Environment			
Operating Temperature Range	Charge: -10°C~50°C, Discharge: -10°C~55°C		
Max. Operating Altitude	< 4000m(> 2000m Power Derating)		
Relative Humidity Range	0~95% (No Condensation)		
Installation	Wall-mounted or Floor-mounted		
Ingress Protection Rating	IP66		
Warranty	10years		
Cycle Life	≥7000 cycles ^[1]		
System Certification	Safety: IEC/EN 62109-1&-2; IEC62619; CE; UN38.3 EMC: IEC/EN 61000-6-1/-2/-3/-4; IEC/EN 61000-3-2/-3/-11/-12; IEC/EN 62920 Grid Connection Standards: EN 50549-1:2019/AC:2019; VDE-AR-N 4105:2018; DIN VDE V 0124-100:2020; EN50549-1+EN50438; NA/EEA-NE7 – CH 2020; EIFS 2018: 2; OVE Directive R 25:2020; TOR Erzeuger Type A V1.2		

[1]. 25°C ambient temperature, recommended charging/discharging current.

Great Wall Series Residential ESS (Low Voltage)

- Highly Integrated Design
- High Reliability
- Wide Environmental Compatibility
- High Usable Energy
- Quick Installation



◆ Products Parameters

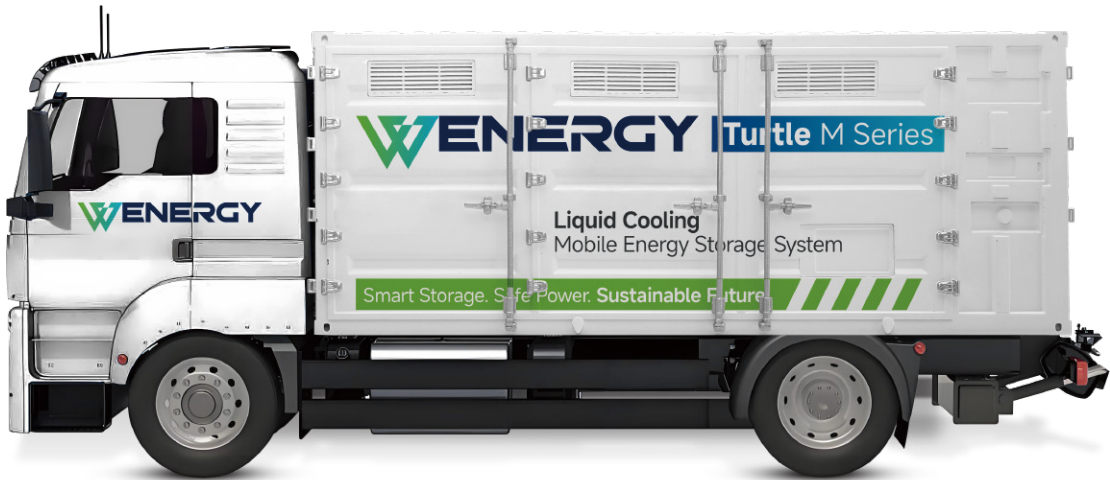
Model	GW-(5~20)-L-3.68K		GW-(5~20)-L-5K	GW-(5~20)-L-6K
Battery System Energy	5.1 / 10.2 / 15.3 / 20.4kWh			
Number of Battery Modules	1 / 2 / 3 / 4			
Rated Battery Voltage	51.2V			
Recommended Max. PV Input Power	7.2kW	10kW		10kW
Recommended Charging/Discharging Current	50A/Module			
Max. Charging/Discharging Current	80A	100 / 120 / 120 / 120A		100 / 125 / 125 / 125A
System Dimensions (W*H*D)	725*(740/1040/1340/1640)*230mm			
System Net Weight	75 / 121 / 167 / 213kg			
Communication	RS485 / WLAN / Bluetooth / DRY / DRM / Meter, LAN / 4G(Optional)			
Environment				
Operating Temperature Range	Charge: 0°C~50°C, Discharge: -20°C~50°C			
Max. Operating Altitude	< 4000m(> 2000m Power Derating)			
Relative Humidity Range	0~95% (No Condensation)			
Installation	Floor-mounted			
Ingress Protection Rating	IP66			
Warranty	Inverter: 5 years (Expand to 10 Years); Battery: 10 Years			
Cycle Life	≥6000 Cycles ^[1]			
System Certification	Safety: IEC/EN 62109-1&-2; IEC62619; CE; UN38.3 EMC: IEC/EN 61000-6-1/-2/-3/-4; IEC/EN 61000-3-2/-3/-11/-12; IEC/EN 62920 Grid Connection Standards: EN 50549-1:2019/AC:2019; VDE-AR-N 4105:2018; DIN VDE V 0124-100:2020; EN50549-1+EN50438; NA/EEA-NE7 – CH 2020; EIFS 2018: 2; OVE Directive R 25:2020; TOR Erzeuger Type A V1.2			

[1]. 25°C ambient temperature, recommended charging/discharging current.

Turtle M Series Mobile ESS | 289 / 365 / 645 / 723 / 1157 kWh

Customizable as Needed

Energy Saving & Eco-Friendly / Intelligent Dispatching / Ready-to-Deploy / Effortlessly Tackling Power Challenges



◆ Applications

- Outdoor Activities & Emergency Power Supply
- C&I Mobile Energy Storage
- Infrastructure Development in Remote Areas

◆ Key Highlights

Flexible Deployment

Paired with a dedicated tractor and custom trailer, the unit can be moved and deployed anywhere, delivering instant power for events, emergency response, and industrial sites.

Intelligent & Safe Operation

Advanced BMS/EMS with liquid cooling ensures efficient, safe performance. Equipped with aerosol fire suppression and multi-sensor detection for all-round protection.

Built for Harsh Environments

Operates from -30°C to 55°C and up to 4,500 m altitude, ensuring reliable power in remote and demanding conditions.

Lower Costs, Higher Efficiency

Self-powered design and optimized energy management cut operating expenses and reduce energy waste.

Turtle M Series Mobile ESS | 289 / 365 / 645 / 723 / 1157 kWh

Customizable as Needed

◆ Products Parameters

Model	289kWh	365kWh	645kWh	723kWh	1157kWh
Battery Parameters					
Configuration	1P288S	1P364S	3P240S	3P240S	4P288S
Rated Energy	289kWh	365kWh	645.12kWh	723kWh	1157.52kWh
Rated Voltage	921.6V	1164.8V	768V	768V	921.6V
Voltage Range	720V~1000V	910~1328.6V	600V~876V	600V~876V	720V~1000V
System Parameters (0.5P)					
Rated Voltage	400VAC				
AC Rated Power	140kW	182.5kW	322.5kW	320kW	350kW
Max. Discharging Power	270kW	320kW	405kW	405kW	540kW
Rated Frequency	50Hz/60Hz				
Temperature Range	-30~45°C				
Operating Altitude	≤4500m（>2000m Derating）				
Humidity	≤95%RH				
Basic Parameters					
ESS Size	4050*1900*1825mm	4000*1900*1850mm	6058*2438*2896mm	4900*2380*2400mm	6058*2438*2896mm
ESS Weight (L*W*H)	≈ 6.1t	≈7.1t	≈16t	≈12t	≈19t
IP Protection Level	IP54				
Cooling Method	Liquid Cooling				
Fire Satey Configuration	Aerosol Fire Protection, Five-in-one Detector				
Communication	RS485/CAN				