



Wenergy Products Album

- ◆ One-stop Energy Solutions
- ◆ Global Agility for Swift Deployment
- ◆ Zero Incidents Record

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Wenergy Storage |

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Turtle Series Container ESS

3.44 / 3.85 / 5MWh

Reduced Cost | Increased Efficiency | Safety | Smart



◆ Product Parameters

Model	Turtle CL3.44	Turtle CL3.85	Turtle CL5
Battery Type	LFP 280Ah	LFP 314Ah	LFP 314Ah
Rated Energy	3.44 MWh	3.85 MWh	5.016 MWh
Rated Power	1.72 MW	1.929 MW	2.5 MW
DC Rated Voltage	1228.8V	1228.8V	1331.2V
DC Voltage Range	1075.2V ~ 1382.4V	1075.2V ~ 1382.4V	1164.8V ~ 1497.6V
Max. Efficiency of System	> 89%		
IP Protection Level	IP55		
Weight	33,000kg	36,000kg	43,000kg
Cooling Type	Liquid Cooling		
Noise	<75 dB (1m away from the System)		
Communication Interface	Wired: LAN, CAN, RS485		
Communication Protocol	Modbus TCP		
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

True All-in-One BESS

96 / 144 / 192kWh

Integrated PV, ESS, Diesel,
and EV Charging Capabilities

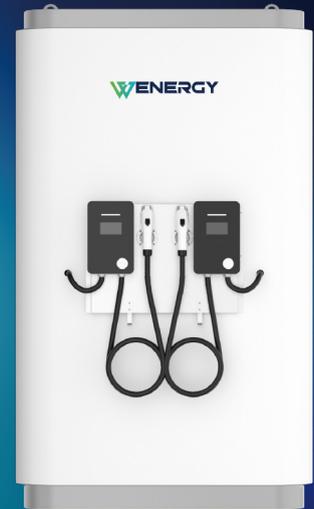
215 / 258 / 289 / 385kWh

Optional MPPT, STS, ATS,
and Charging Gun Integration

All-in-One Energy Hub
Higher ROI
Smart Cooling
Reliable Safety Assurance



Stars 258/289/385 kWh



Stars 96/144/192 kWh



◆ Product Parameters

Model	Stars CL192Pro - 125		
Rated Energy	96.46kWh	144.69kWh	192.92kWh
DC Voltage Range	240~350.4V	360~525.6V	480~700.8V
Rated Power	125kW		
AC Rated Voltage	400V		
AC Frequency	50/60Hz		
IP Protection Grade	IP55		
Corrosion-proof Grade	C4H		
Cooling Type	Liquid Cooling		
Noise	<75dB (1m Away from System)		
Dimension(W*D*H)	(1800±10)*(1435±10)*(2392±10)mm		
Communication Interface	Ethernet		
Communication Protocol	Modbus TCP/IP		
System Certification	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)			

◆ Product Parameters Energy Storage Cabinet

Model	Stars CL215	Stars CL258Pro	Stars CL289Pro	Stars CL385Pro
System Parameters				
Battery Type	LFP 280Ah	LFP 280Ah	LFP 314Ah	LFP 314Ah
Rated Capacity	215kWh	258kWh	289kWh	385kWh
Cooling Type	Liquid Cooling			
IP Protection Level	IP55			
Corrosion-proof Grade	C4H			
Fire Protection System	NOVEC 1230 or FM-200 (Optional)	Aerosol		
Noise	75dB	< 75dB (1m Away from the System)		
Dimension	935*1250*2380mm	(1588±10)*(1380±10)*(2450±10)mm		1578mm*1380*2500mm
Weight	2700±100kg	2950±150kg	3050±150kg	≤3900kg
Working Temp. Range	-30°C~55°C (Derating When > 45°C)			
Relative Humidity Range	0~ 95 % (Non-condensing)			
Communication Interface	RS485 / CAN			
Communication Protocol	Modbus TCP/CAN2.0	Modbus TCP		
Cycle Life	≥6000	≥8000	≥8000	≥8000
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			
Max. Efficiency of System	86%	> 89%	> 89%	> 93%
Quality Guarantee	3 Years	≥5 Years		
EMS	Local Control	Built-in	Built-in	External
Application Scenarios	New Energy Generating, Distributed Generating, Micro-grid ESS, EV Charge, City ESS, Industrial & Commercial ESS, etc.			
DC Battery Parameters				
Rated Voltage	768V	921.6V	921.6V	1228.8V
Voltage Range	672~864V	720 ~ 1000V	720 ~ 1000V	1075.2 ~ 1382.4V
Charge & Discharge Ratio	0.5P			
AC Side Parameters				
Rated AC Voltage	400V	400V	400V	/
Rated Output Frequency	50/60Hz	50/60Hz	50/60Hz	/
Rated Power	100kW	125kW	125kW	/
Rated Current	144A	182A	182A	/
Max. AC Power	120kW (60S 25°C)	150kW (60S 25°C)	150kW (60S 25°C)	/
AC/DC Converter Grid-connected Certification	GB/T 34120-2017, GB/T 34133CE, EN50549-1:2019+AC.2019-04, CEI 0-21, CEI 0-16, NRS097-21-1:2017, EN50549, C10/11:2019, EN50549-1&10, G99, VDE-AR-N 4105, VDE-AR-N 4110, VDE-AR-N 4120, UNE 217002, UNE 217001, NTS631, TOR Erzeuger, NRS 097-2-1			

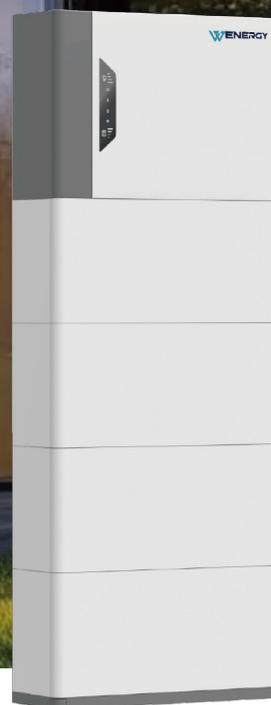
[1]. UL1973 and UL9540A are for Stars CL385Pro only.

Great Wall Series Residential ESS (High Voltage)

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



UN38.3



◆ Product 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		
Usable Energy ^[1]	7.2 / 10.8 / 14.4 / 18 / 21.7kWh		
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	12kW	15kW	18kW
Recommended Charging/Discharging Current	18.5A		
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 ^[2]		
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]. Test Conditions - Temperature 25°C, at the beginning of life, cell charge voltage between 2.8-3.5V, 0.5C.

[2]. 25°C ambient temperature, recommended charging/discharging current.

Choose Wenergy for Secure Energy Storage

1 Headquarter in Singapore

5 Global Branches (China, USA, Germany, Italy, Chile)

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



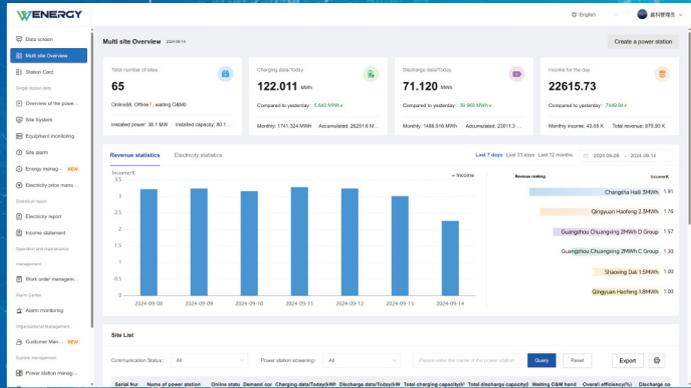
Battery Pack Assembly



BESS Integration & Commissioning

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

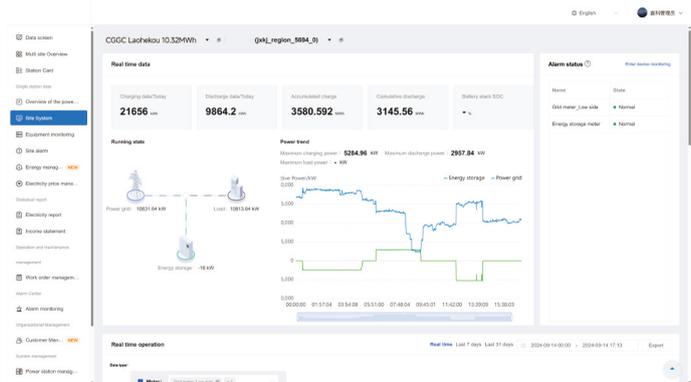
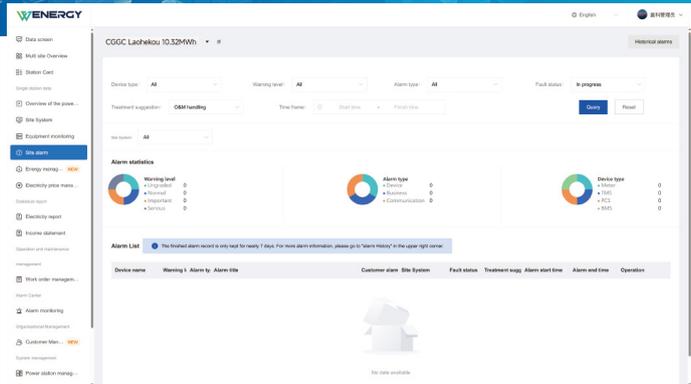
- Dual-processor architecture
- 4KHz real-time monitoring
- Cloud-based balancing optimization
- 90% diagnostic coverage

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



Quality Assurance

Globally Certified Excellence in C&I Energy Storage Solutions

Global Certification

UN38.3

American Standard

UL 1973
UL 9540
UL 9540A

FCC
Part 15B

NFPA 69

European Standard

IEC62619, IEC60730,
IEC61000, IEC63056,
IEC62477, IEC62933,
IEC60529

ISO13849

RF/EMC

Grid-connected Certification

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

Application Cases

