

Wenergy Products Album

Safe ESS Solutions Expert

- Full Chain Technology
- Professional Intelligent Control System
- Full Security Guarantee

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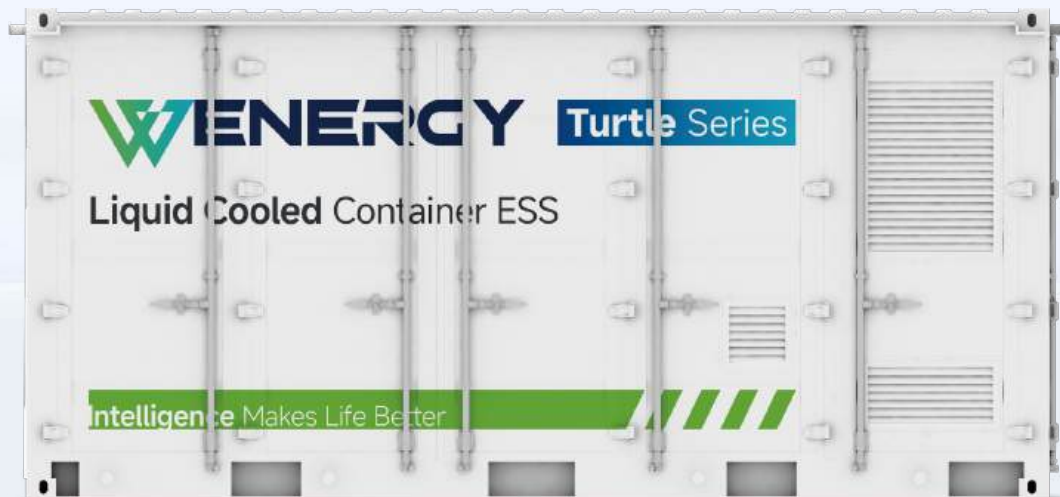
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Turtle Series Container ESS

3.44 / 3.85 / 5MWh

Reduced Cost | Increased Efficiency | Safety | Smart



◆ Product Parameters

Model	Turtle 3.44	Turtle 3.85	Turtle 5
Battery Type	LFP 280Ah	LFP 314Ah	LFP 314Ah
Rated Energy	3.44 MWh	3.85 MWh	5.016 MWh
Rated Power	1.725 MW	2 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
AC Rated Voltage	690V		
Max. Efficiency of System	> 89%		
IP Protection Level	IP54		
Weight (kg)	33,000	36,000	45,000
Cooling Type	Liquid Cooling		
Noise	<65 dB (1m away from the System)		
Communication Interface	Wired: LAN, CAN, RS485		
Communication Protocol	Modbus TCP		
System Certification	IEC/EN 62477, NFPA855, IEC/EN 62619, IEC/EN 60730, IEC/EN 63056, UL 1973, UL 9540A		

Star Series Cabinet ESS

96 / 144 / 192kWh

Integrated PV, ESS, Diesel,
and EV Charging Capabilities

215 / 258 / 289 / 385kWh

High Integration

Safe and Reliable

Efficient and Flexible

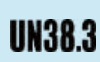
Smart and Friendly

iBMS

SOC Correction Algorithm

Cloud Security Warning

Temperature Management



◆ Product Parameters

Energy Storage & EV Charging Cabinet

Model	Star 192 (Integrated Solar, Storage, and Diesel Charging System)		
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		
Rated Output Frequency	50Hz		
IP Protection Grade	IP54		
Corrosion-proof Grade	C4H		
Cooling Type	Liquid Cooling		
Noise	<65dB (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	GB/T 36276, GB/T 34131, GB/T 34120, UL1973, UN38.3, IEC/EN 62477, IEC/EN 62619, IEC/EN 63056		
*Standard: PCS、DCDC Optional: MPPT、STS、ATS、Charging Pile			

◆ Product Parameters

Energy Storage Cabinet

Model	Star 215	Star 258	Star 289	Star 385
System Parameters				
Battery Type	LFP 280Ah	LFP 280Ah	LFP 314Ah	LFP 314Ah
Rated Capacity	215kWh	258kWh	289kWh	385kWh
Rated Power	100kW	125kW	125kW	/
Cooling Type	Liquid Cooling			
IP Protection Level	IP54			
Corrosion-proof Grade	C4H			
Fire Protection System	Perfluoro / HFC-227ea (Optional)			
Noice	75dB	< 65dB (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℃~55℃ (Derating When > 45℃)			
Relative Humidity Range	0~ 95 % (Non-condensing)			
Communication Interface	RS485 / CAN			
Communication Protocol	Modbus TCP/CAN2.0	Modbus TCP		
Cycle Life	≥6000	≥8000	≥10000	≥10000
System Certification	GB/T 36276, GB/T 34131, GB/T 34120, IEC62619, UL1973, UL9540A, UN 38.3, IEC/EN 61000			
Max. Efficiency of System	86%	> 89%	> 89%	> 93%
Quality Guarantee	3 Years	≥5 Years		
EMS	Local Control	Possess	Possess	Not Possess
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	960 ~ 1401.6V
Charge & Discharge Ratio	0.5P			
Max. Input DC Power	100kW	125kW	135kW	/
AC Side Parameters				
Rated AC Voltage	400V	400V	400V	/
Rated Output Frequency	50/60Hz	50/60Hz	50/60Hz	/
Rated Power	100kW	125kW	135kW	/
Rated Current	144A	182A	196A	/
Max. AC Power	120kW (60S 25℃)	150kW (60S 25℃)	162kW (60S 25℃)	/
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, AS 4777.2			

Great Wall Series

Residential ESS

5~30kWh (1~6 Batteries)

Safe Reliability

Long Life

iBMS

Ease of Installation

Flexible Extensibility

Strong Environmental Adaptability

Perfect Compatibility

Expandable up to 30kWh



◆ Product Parameters

Model	Great Wall 05	Great Wall 10	Great Wall 20		Great Wall 30
Configuration	2P16S	2P16S:2pcs	2P16S:4pcs		2P16S:6pcs
Size	600*900*220mm	600*1200*220mm	600*1800*220mm		600*2400*220mm
Weight	67kg	109kg	193kg		277kg
Nominal Voltage	51.2V	51.2V	51.2V		51.2V
Voltage Range	40~58.4V	40~58.4V	40~58.4V		40~58.4V
Rated Capacity	100Ah	200Ah	400Ah		600Ah
Rated Energy	5.12kWh	10.24kWh	20.48kWh		30.72kWh
Max. Charge Current	50A				
Max. Discharge Current	100A				
Depth of Discharge	90%				
Communication Protocol	CAN/RS485				
Cycle Life	≥6000times @25°C 0.5C				
Operating Temp. Range	Charge: 0~55°C; Discharge: -10~35°C				
System Certification	ISO13849, IEC/EN 62619, IEC/EN 61000, IEC/EN 62040, UL1973, UL9540A				

Wenergy, Safe Energy Storage System Solutions Expert

Wenergy Technologies Pte Ltd focuses on providing multiple solutions for renewable energy storage, combining with grid, wind, or PV power systems. We have been deeply involved in the battery storage industry for over a decade.

- Our storage solutions are suitable for power generation, grid-side, and user-side applications, including residential, industrial & business, and utility-scale power storage, among others.
- We have developed the BMS and EMS solutions, enabling remote monitoring, tracking, and easy control of the energy storage system.
- Wenergy aims to bring advanced, smart, and powerful energy solutions to the world!

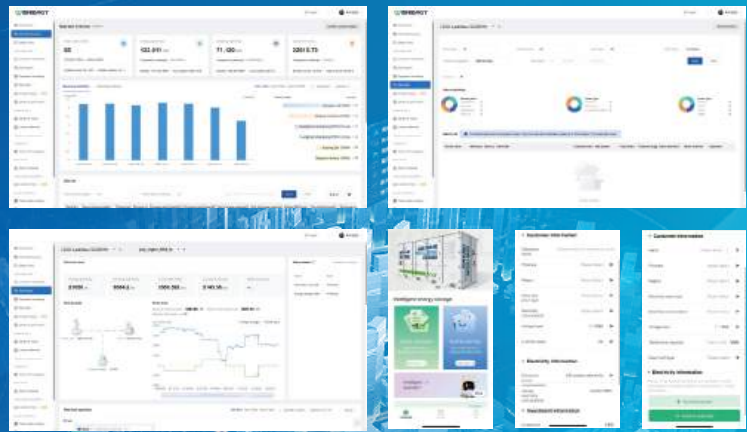


Commercial & Industrial ESS Solutions

- ◆ Peak Shaving and Valley Filling
- ◆ Power Quality Optimization
- ◆ Virtual Capacity Expansion

- ◆ Backup Power
- ◆ Demand Management
- ◆ Demand Side Response

Digital Energy Solutions



- ◆ Energy Internet
- ◆ Virtual Power Plant
- ◆ Energy & Carbon Management
- ◆ Energy Management
- ◆ AI Big Model
- ◆ Big Data

Full Chain Production 10 Keypoints to Ensure Safety

Design

Security system, multi-layer protection, fire protection

PCS

Security conversion, integrated and flexibility charging/discharging

Materials

LFP material with safe and stable performance

PACK

Safety module, safety material, insulation warning

Cabinet

3 level security structure from system to pack to battery

Fire Protection

Thermal control assistant fire guard

BMS

Real-time monitoring, active protection

EMS

Security management, smart control + pre-warning radar

Battery

Mature technology, MES produce, fully testing

Operation

Remote operation and maintenance for troubleshooting

Application Cases Total scale: 2GWh+ (excluding cell sales)

