

TURNKEY SOLUTIONS FOR EV INDUSTRY

EV KIT • CHARGERS • EV POWERBANK • ESS

COMPANY PROFILE

ΛΞAUTO

 AE has more than 10 years of experience in the development of new energy vehicles and supporting solutions in China and overseas.

With its comprehensive industry knowledge, our company can clearly judge the current technology trends, to help customers develop competitive products.



COMPANY HISTORY

ΛΞAUTO

Start R&D for Thailand Electric

bus project.

New company set up in Nanjing.

Got batch order of chargers in UK and

NewZealand.

Win the reward of "Nanjing High-level

talents Company" And perferential Policy

form Goverment.

Hangzhou branch was established

Electric yacht project with southeast

Asa's top 5 yacht manufacturers Launched.



Started electric vehicle key

Systems and components

Business.

Development communication With

Turkey manfactures.

Commercial vehicle projects in

Thailand, Turkey, Malaysia...

The new energy conversion project With the

top 3 commercial vehicle Factories in South

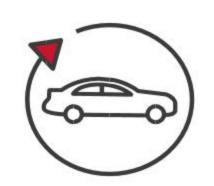
America was Launched.

The Hong Kong office was established

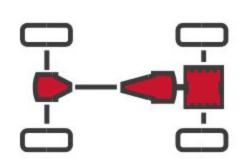
BUSINESS SCOPE



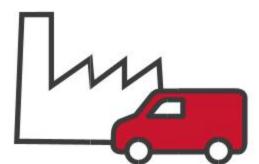
- As a EV power system designer and EV provider, we provide holistic solutions to manufacturers in Europe, Southeast Asia and South America.
- Provide charging pile overall solutions and licensing production services for Europe,
 CIS, Southeast Asia and South America commercial vehicle manufacturers and charging pile operators.



Build CAN network system



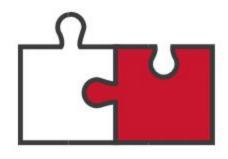
Intelligent and electric drive systems



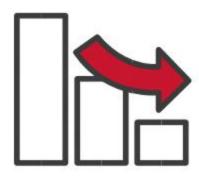
Intelligent of electric vehicle



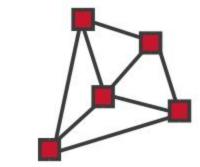
Vehicle Networking System



Build CAN network system



LCC Management Solution



Charging Station and Management System



Modular Design

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DC Fast Charger



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60-160KW

60-160KW Floor Mounted

DC Output Power 60KW~160KW

DC Output Current Range CCS: 0 – 200A□CHAdeMO: 0 – 125A

AC Output Power 22kW max

AC Output Current 3-phase 32A max

Input Voltage 400Vac +/-10%□50/60Hz, 3-phase + N + PE

Input Current 0 - 250A

Net weight 370KG

Dimension (H x W x D) 1880 x 580 x 750mm

Cable Length 5m

Protection Class IP55

Communications Interface CAN, 485, 4G or Ethernet

Backstage Monitoring OCPP1.6 JSON support



CAN, 485, 4G or Ethernet

OCPP1.6 JSON support



40KW



20KW

40KW Wall Mounted/Stand	20KW Portable
42KW	20KW
200~750VDC	200~750VDC
60A	26.7A
CCS Type 2	CCS Type 2
Above 95%	Above 95%
IP55	IP55
146KG	58KG
1277 x 848 x 576mm	782 x 472 x 312mm
5m	5m
	Mounted/Stand 42KW 200~750VDC 60A CCS Type 2 Above 95% IP55 146KG 1277 x 848 x 576mm

CAN, 485, 4G or Ethernet

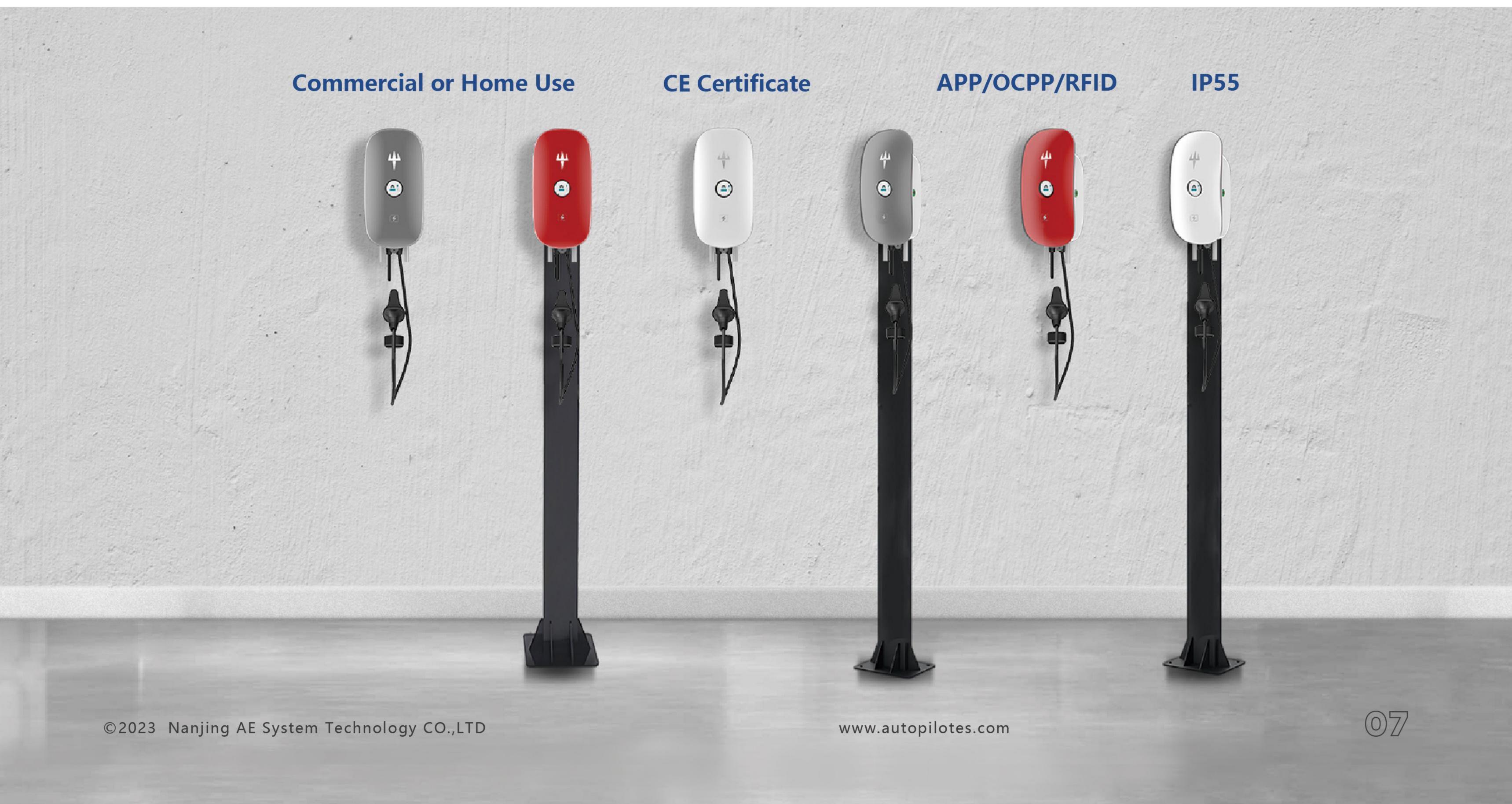
OCPP1.6 JSON support

Communications Interface

Backstage Monitoring

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AC Charger



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ltem	22KW Commercial/HOME	11KW Commercial/HOME	7KW Commercial/HOME
Input Voltage	AC220V±15%	AC220V±15%	AC220V±15%
Input Frequency	50HZ	50HZ	50HZ
Rated Power	22KW	11KW	7KW
Rated Output Current	32A	16A	32A
Cabinet Material	Plastic	Plastic	Plastic
Dimension(H x W x D)	350 x 100 x 175mm	350 x 100 x 175mm	350 x 100 x 175mm
Charging Groups	Single Shot	Single Shot	Single Shot
Cable Length	5m	5m	5m
Protection Class	IP55	IP55	IP55
Installation Method	Wall-mounted/ Floor-	Wall-mounted/ Floor-	Wall-mounted/ Floor-
	mounted	mounted	mounted
Backstage Monitoring	OCPP1.6 JSON	OCPP1.6 JSON	OCPP1.6 JSON

(Commercial)

CAN, 485, 4G or Ethernet

* Communications Interface

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Charger Pal

Charging power rate 180kw

Output voltage range 200 ~ 750V

Max. output current 200A

Storage battery capacity 186.71 kwh

Weight (kg) <3500

Dimensions (LxWxH, mm) 5450×2190×1903

Noise (dp(A)) <65@1m

Working temperature - 20 ~ + 55°C

Working humidity 5%~95% □no condensation

Working altitude 2000m

Protection level IP55

Cooling method Charger: Air cooling Battery: Liquid cooling

Input voltage range AC: 400VAC±10%,50/60Hz□DC: 250VDC~ 800VDC

Max. power rate 180KW(DC)

Output voltage range 200 ~ 750V

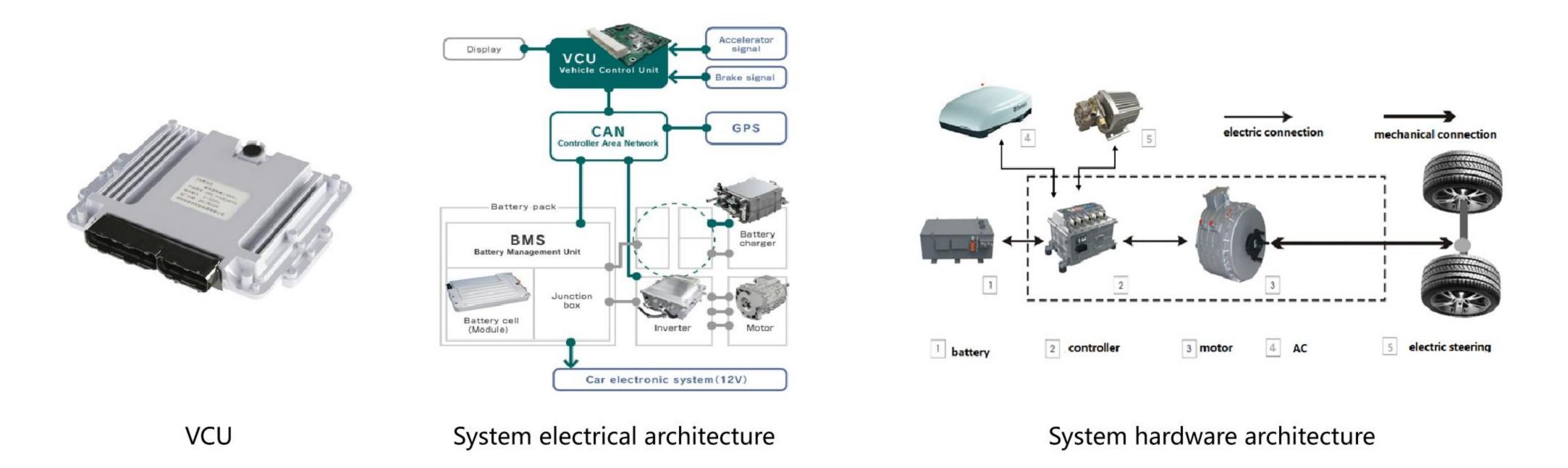
Constant power range voltage 300 ~ 750V



ELECTRIC POWERTRAIN SYSTEM SOLUTION

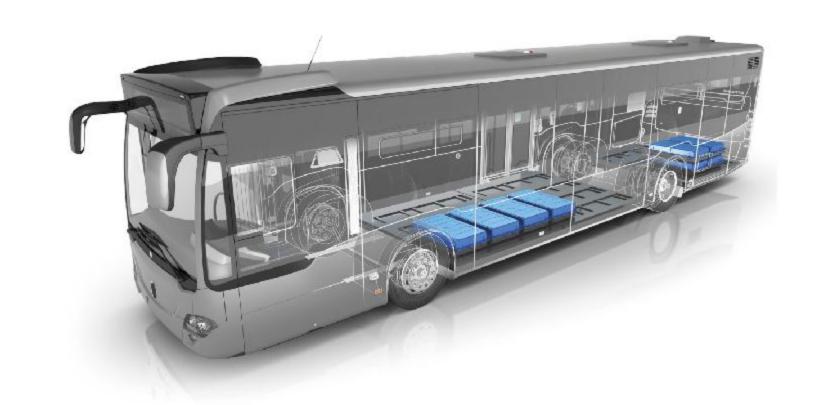


With more than 10 years of experience in the development of new energy vehicles and supporting solutions all over the world, AE can provide a turnkey project based on the different product application scenarios of different customers, such as: Road Passengers Transport Solution, Vessel Solution, Heavy-duty Transport Solution, Urban Delivery Solution, Construction Machinery Solution, Urban Street Cleaning Solutions, etc. AE's product solutions are safer, more reliable, and more durable, which will effectively help customers reduce costs and increase efficiency. Furthermore, they will promote the electrification process in various fields and create a more beautiful and green environment.



ELECTRIC POWERTRAIN SYSTEM SOLUTION

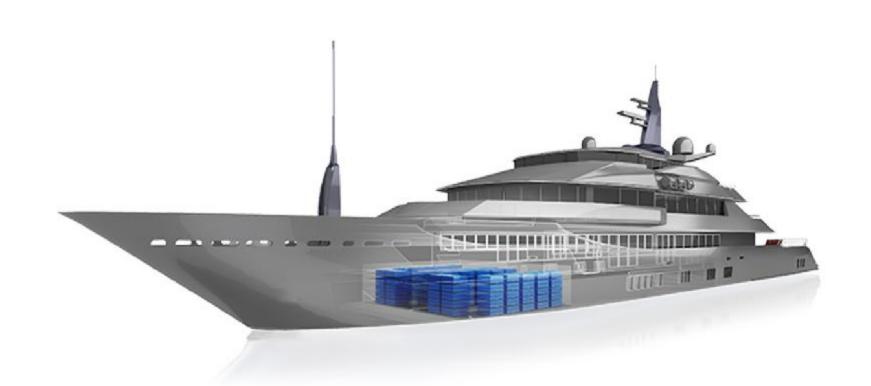
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Road Passengers Transport Solution



Heavy-duty Transport Solution



Electric yacht



Construction Machinery Solution



Urban Delivery Solution



Urban Street Cleaning Solutions

ESS SOLUTION



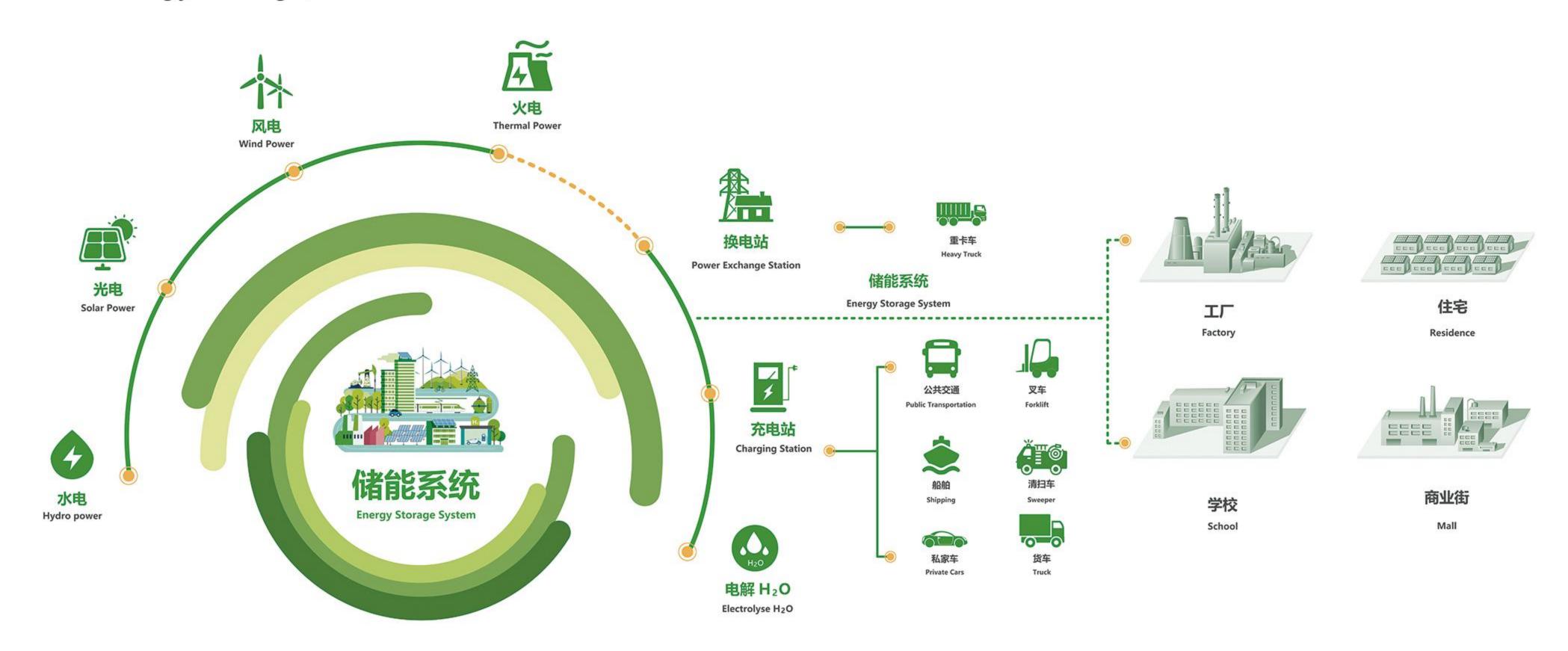
ESS (Energy Storage System) is a system that can store and supplie electricity, which has functions such as peak shaving and valley filling, frequency and voltage regulation, and smooth transition.

Cooperating with solar, wind, and other power generation devices, it can effectively reduce the impact of randomness, intermittency, and volatility on the power grid and users

Charging during peak price periods and discharging during peak price periods can reduce users' electricity bills;

When the power grid is cut off, it can operate in isolation, ensuring uninterrupted power supply to users.

The application scenarios include solar and wind power generation energy storage supporting facilities, industrial enterprise energy storage, commercial buildings and data center energy storage, energy storage charging stations, communication base station backup batteries, household energy storage, etc.



ESS SOLUTION

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Battery

Battery: Lithium iron phosphate

battery (LiFePO4)

Capacity: 3MWh/5MWh/7MWh

Life: 8000 times (90%DOD)





Energy Management System

Monitor, detect, and control equipment operating status

Emit energy or Store energy

Container specifications

20HC

30HC

40HC

30HC

7.53MWh

Container specifications

2.67-3.01

4.52-5.27

6.67-7.53

Adapted voltage range 1000-1500V

Charge and discharge multiplier 0.5CP

Module parameters LFP-38.4V-560Ah-21.504kWh/LFP-76.8V-280Ah-21.504kWh

Cycle life 8000次 (90%DOD, 270%EOL)

Circulation efficiency ≥94%(DC side)

BMS scheme Active Balance + Three-level Architecture

Communication interface Ethernet/RS-485/CAN

Communication specifications Modbus-TCP/IEC61850/104

Temperature control scheme Intelligent Frequency Conversion Air Cooling

Fire protection plan Gas/Smoke/Temperature Detection +

Heptafluoropropane + Water Fire Protection + Perfluorohexanone (Optional) + Active Ventilation

AC380V-50Hz

LFP-3.2V-280Ah-896Wh

Insulation resistance > 10MQ

Height above sea level ≤5000m (>3000m Reduce The Capacity)

Allowable ambient temperature -40~+55°C

Allow relative humidity 0-95%Rh(No Condensation)

Level of protection IP65

Anti-corrosion level C4(C5 Selection And Matching)

Size L*W*H 6058*2438*2896mm 9125*2438*2896mm 12192*2438*2896mm

Full weight 28T 48T 69T

Product certification GB/T36276、GB/T34131、UL1973、UL9540A、IEC62619、UN38.3

Cell parameters

Auxiliary power

ESS SOLUTION

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(standard configuration)

Battery



Battery: Lithium iron phosphate battery (LiFePO4)

Single Capacity: 215kWh

Series Capacity: 215kWh -1MWh

Life:8000 times (90%DOD)

Energy Management System





Monitor, detect, and control equipment operating status

Emit energy or Store energy

ESS Product parameter

System Spec.

DC side	System capacity (kWh)	60/120	200/215
	Rate voltage (Vdc)	600	750
	Voltage range (Vdc)	537-691	672~864
AC side	System power (kW)	30/60	100

Rate voltage (Vac) 380

Rate frequency (Hz) 50/60

Power factor -1~+1

Output AC connection 3phase 3P+N+PE

Operation mode PQ/VF
Communication RS485/LAN

Enclosure Protection IP54

Altitude ≤2000m

Efficiency to AC side 88%

Operation humidity range 5% ~ 95% (non-condensing)

Cycles endurance $\geq 4000~(25^{\circ}\text{C}, \geq 6000~(25^{\circ}\text{C}, \\ 0.5\text{C charger} & 0.5\text{C charger} \\ \text{and discharge,} & \text{and discharge,} \\ 90\%\text{DOD,} & 90\%\text{DOD,} \end{cases}$

90%DOD, 90%DOD, EOL≥80%) EOL≥80%)

weight (kg) 1400/1850 1850

Certification GBT36276 (IEC 62619, IEC61000-6-2/4,

IEC62477Functional safety: IEC60730-1 AH-CLASS B. UL: UL9540A, UL9540,

UL1973 in process)

Others

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