

Jointly Build a High Quality and Sustainable Smart Charging Network



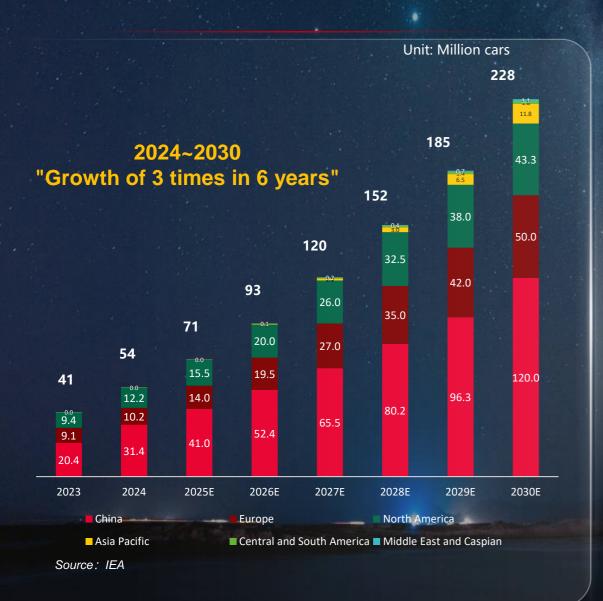




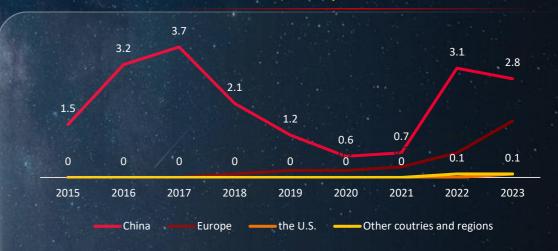
Trends and Challenges

New energy vehicles 228 million worldwide by 2030

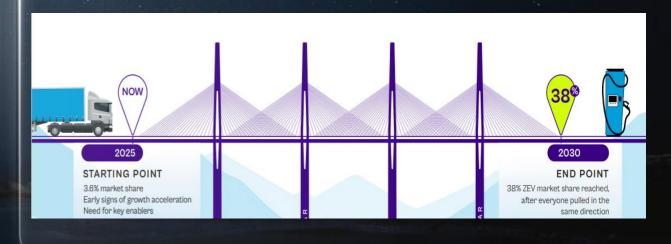
NEV@2030: 228Million, CN52%, EU22%



Electric trucks account for truck market share worldwide (%), 2015-2023



Electric trucks booming from 3.6% to 38% by 2030



EV Cars & EV Chargers Growth

OEMs Accelerate Launching the Ultra-fast Charging EVs



60+ Models with 800V High-Voltage Ultra-Fast Charging Platform in Guangzhou Car Show

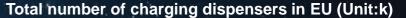
High-Voltage System Extends to Compact EVs



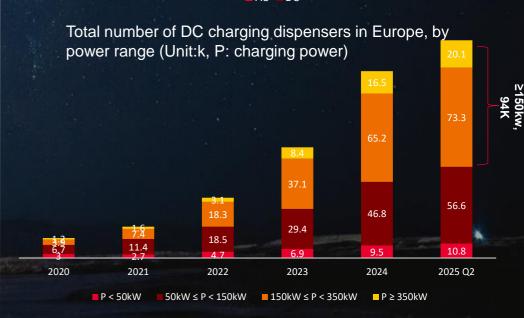
High-Voltage System to Commercial EVs



≥150kW charging dispensers towards 100K







Source: European Commission



Europe: "0" carbon by 2035, 3 million Charges by 2030

Policy motives EV Growth

Europe: "0" carbon by 2035, 30 million BEV by 2030





- One of the EU's seven flagship projects: building fast charging stations along the EU road network
- 1 million publicly accessible recharging points by 2025, and 3 million by 2030 (Sustainable and Smart Mobility Strategy).



- Over 4,500 public charging points today, with a national target of 30,000 by 2026 under the PNRR.
- Incentives up to €30,000 for installing chargers and tax benefits accelerating EV adoption.

Proposals facilitate industry development



Albania

Aiming to install 200–300 EV charging stations by 2025 and reach ~18% BEV + PHEV sales by 2030, with EVs to account for ~3% of passenger-km by 2030.



Bulgaria

Build 10,000 charging stations to facilitate at least 30,000 EVs by 2026.



Cyprus

Aims for 25% of new vehicle registrations to be fully electric by 2030 and 100% by 2035,, and plans to reach ~85,000 EVs on the road



Greece

Targets 40,000–100,000 publicly accessible EV charging points by 2030, with total installed charging power exceeding 550 MW.



Moldova

Developing a national e-mobility strategy focused on transport electrification to achieve climate neutrality; it includes fleet electrification, stricter emissions standards, and fiscal incentives for EVs.



N. Macedonia

Rolling out public fastcharging points up to 150– 180 kW through national and private operators by 2028

Grid Capacity is a bottleneck for EV Charger, ESS is the best solution

The remaining power capacity is insufficient, and the construction costs are high.



Transformer construction costs high and takes long time

Transformer Upgrade



Cost

€300K

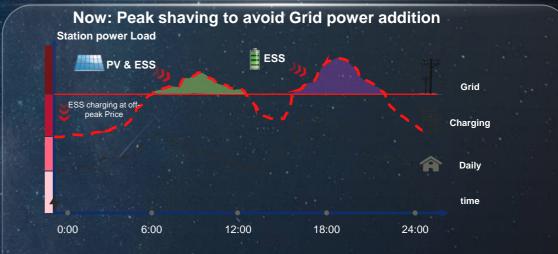
@ 630kVA

Time

>1 Year

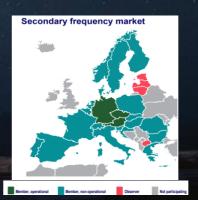
@10-35m²

ESS, avoiding AC expansion and support New BC

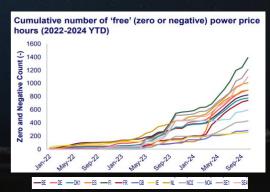


Ongoing: Peak shaving to deal with grid supply alternation

Frequency balance market is available in most EU countries



Arbitrage: renewable energy will enlarge electricity price fluctuation



Source: Wood Mackenzie





Fusion Charge DC Liquid Solution



One Fits All

End to end solution managed by one cloud platform: ultra safety, better revenue, high quality



Add on



Optimizer: 1100/1300W Inverter: 30~150 kW



PV system

- · World's largest power
- Ultra-safety
- Most reliable (99.999%)





Hybrid icooling ESS (215kWh)

- C2C dual-link safety
- 91.3% Highest RTE efficiency
- Prefabricated installation

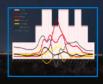
Existing



- 5min@200km Better experience
- 95.5%@600kW Higher efficiency

4 Business models

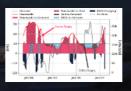
Electricity price optimization



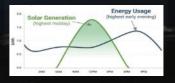
Site power addition



Input power self-adjustment



Maximum solar self-usage





One Investment for different scenarios and EV models

One investment



DS720-720LEUA4: 600kW+720kW DS720-720LEUA4: 240kW+360kW

Return 1:
Passenger EV charging



Ultra-fast charging: 480 kW, 500 A



Return 2: Heavy-duty truck charging



Dual-connector charging: 720 kW, 1200 A



Return 3: Megawatt charging



Megawatt ultra-fast charging: 1.5 MW, 2000 A



Applicable to multiple scenarios

Scenario 1: Enroute



Highway service area



City Public

Scenario Features : On the go, charging time 10-30min, typical scenarios of ultra-fast charging

Scenario 2: Fleet



Logistics Park



Mining area



Bus



Port

Scenario Features: Dedicated vehicle model, Charging time 1~2 hours

Scenario 3: Destination



Shopping Mall



Residential area



Campus



Leisure park

Scenario Features: Charging time 2-4 hours



Intelligent Architecture and Design

Liquid Cooling Design

Doubled reliability, noise ≤ 55 dB, applicable to residential scenarios

55%

Component failure due to high temperature

15%

Pin failure due to corrosion by high salt

15%

Component moisture absorption failure due to high humidity

15%

Arc failure due to dust and condensation

Traditional solution

3 to 5 years of service life

4 site visits/year for dust removal

 $70 \sim 80 + dB$

Liquid cooling design

10 years of service life

No manual dust removal

≤ 55 dB



Power Pooling Intelligent Design



* Same grid capacity/Same park place@spring holiday

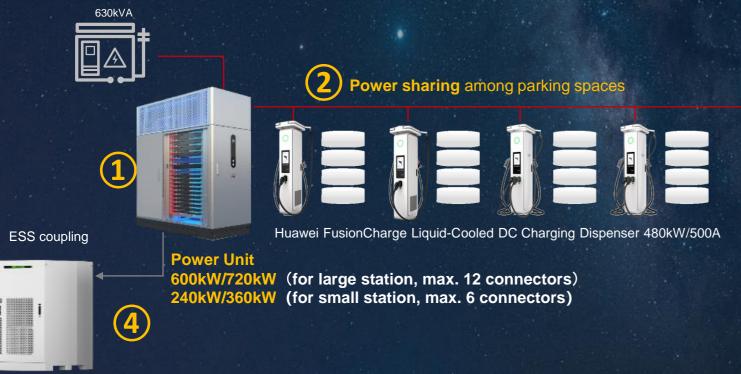
Increasing power utilization

2+ times customer turnover rate in real case

As electric vehicles grow rapidly



Future-Proof EV Charger Solution for High Grid Capacity Site

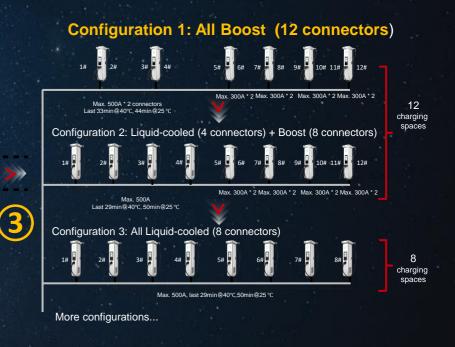


1 Superior quality

Die-casted power modules, ceramic contactors IP55 liquid-proof level Annual failure rate < 0.2%(module) Noise<50 dB@25°C, 1m

2 Two-tier power pooling

AC/DC+DC/DC module Architecture, Saving cost on transformer reconstruction (around €700K/630KVA@EU)



Smooth Evolution

- Support charging up to 12 cars
 Support max 8x500A ultra-fast charging
- Support PV/ESS/PV+ESS integration

Higher Grid utilization

Protecting

Investment

Great reliability





Case sharing







Extreme Cold: -35°C, Yakeshi

Fully enclosed liquid cooling circulation

Core components isolated from the outside

Outstanding thermal insulation, effective temperature control

Reliable Stable

Long-term stable running in extremely cold conditions





Huawei launched MegaWatt charging for heavy-duty truck

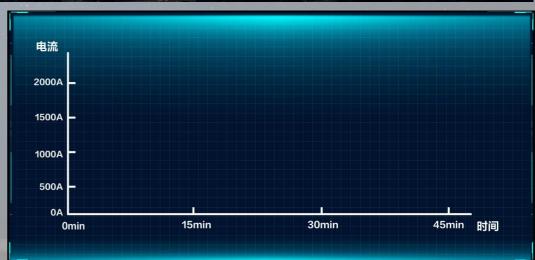


SOC 10%-90% 350+kWh battery

15 min

Continuous current

2400 A



Digital Power: Your Best Partner for a Better, Greener Future

By the end of March 2025, Huawei Digital Power has helped customers

generate green power

save power

reduce carbon emissions

equivalent to planting

1,608.1 billion kWh

96.2 billion kWh

810 million tons 1.1 billion trees



Note 1: Conversion coefficient of electricity carbon emissions – 1 kWh electricity is equivalent to 475 g CO₂ (global average). Source: IEA Global Energy & CO2 Status Report 2018

Note 2: Lifetime CO₂ absorption of trees (equivalent number of planted trees) – A tree absorbs 18.3 kg of CO₂ a year, and each tree has a 40-year lifespan. Source: Open data of the North Carolina State University website

Thank you.

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Bring digital to every person, home, and organization for a fully connected, intelligent World.

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