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Huawei FusionCharge Megawatt Charging Solution

Huawei FusionCharge for Electrified Logistics

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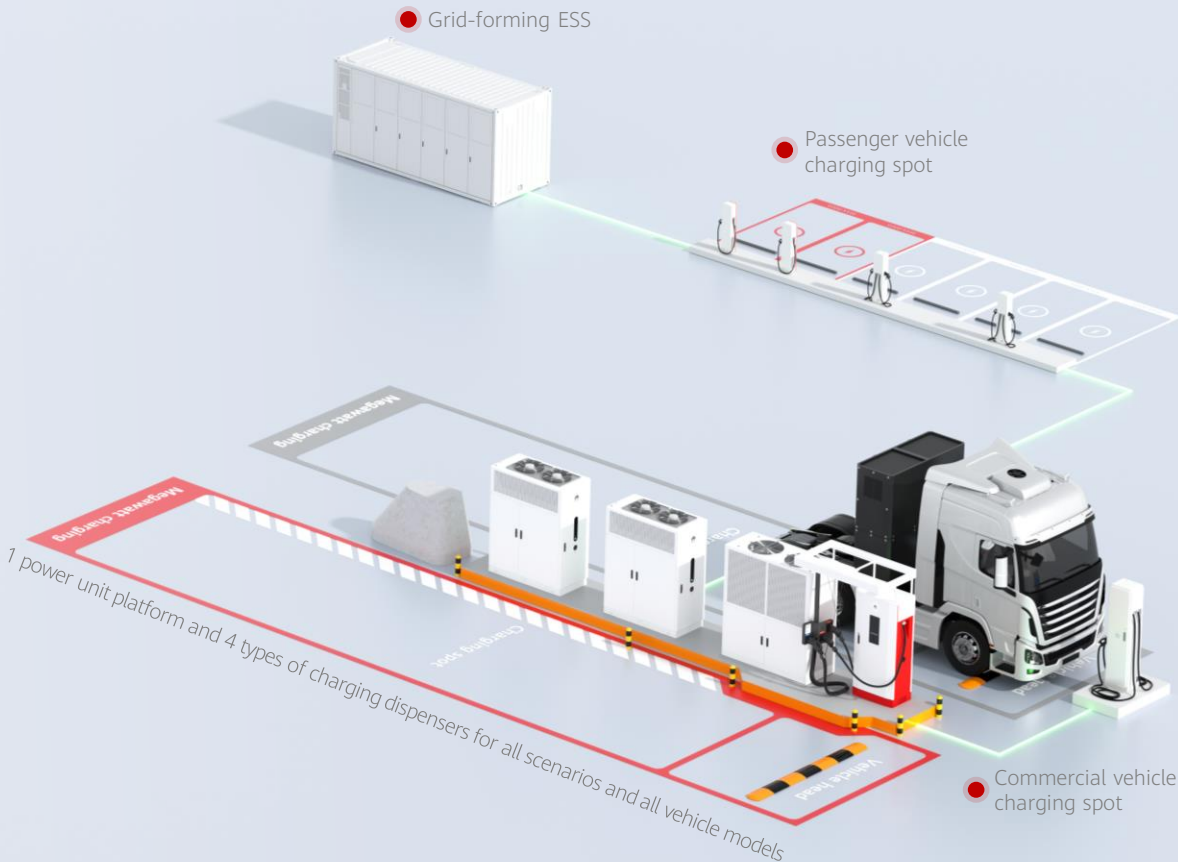


First megawatt charging solution in the industry

15-minute charging, setting a new benchmark

Huawei's next-generation megawatt charging solution for heavy goods vehicles (HGVs) integrates fully self-developed technologies, delivering a long service life, exceptional performance, and uncompromising safety.

Equipment at a single charging spot can output a maximum power of 1.44 MW and can continuously charge a vehicle with two chargers at 2400 A.



Application Scenarios

Huawei's liquid cooling technology and fully enclosed design enable modules to operate in a 100% sealed low-loss, and little-maintenance performance.

manner and be shielded from the harsh environments typical of HGV operations, delivering highly reliable,



* Off-board cooling systems, charging cable management modules, megawatt-charging HGVs, business platforms, and signposts are provided by third parties.

High speed

2400 A^[1]

Continuous output by dual connectors

15 minutes^[2]

From 10% SOC to 80% SOC

1.44 MW^[3]

Two power units

[1] Refers to the charger capability. The data is obtained in the lab environment. The actual charging current may vary by vehicle model, battery, software version, and environment. The actual performance may vary.

[2] A megawatt charging battery has a capacity of 318-528 kWh, has the C-rate of ≥ 3.5C, and can charge a vehicle from 10% SOC to 80% SOC in 15-23 minutes. The actual data may vary by vehicle model, battery, and temperature.

[3] The data is obtained in the lab environment. The actual charging power may vary by vehicle model, battery, software version, and environment. The actual performance may vary.

Superior quality

Long service life

10 years*

Liquid cooling extends equipment lifespan by 2-3 times compared to conventional air cooling



* Note: The service life ends when the total energy charged reaches 20 million kWh or when the equipment has been used for 10 years, whichever comes earlier.

High quality

Adaptive to harsh environments

Designed to perform reliably in hot, cold, humid, dusty, and salty environments.



Unparalleled safety

E2E safety protection

Charged particle tracking technology, steady-state + step fine-tuning



Optimal ROI

More cargo

Logistics efficiency improved by 15%*

Save 2 hours for charging per day.



* The data is estimated based on multiple parties' experience and is for reference only. The actual data may vary by factors such as road conditions and load. The actual business result shall prevail.

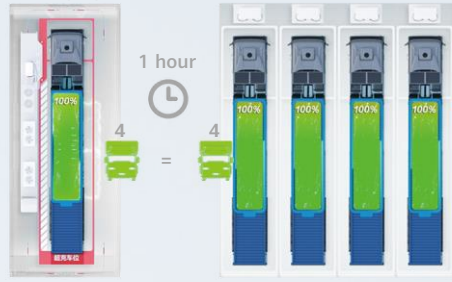
Low construction cost

Footprint reduced by 70%*

Reduced land purchase, hardening, and cable costs

Megawatt charging

Fast charging



* The data is obtained in the lab environment. The data in actual use cases may vary.

Compatible with all EV models

Triple returns on investment

One platform can charge multiple types of vehicles.



PV+ESS+charger

Harmonic suppression algorithm, minimal impact on the power grid

AI-based station load prediction and peak shaving





Improved Experience

Driver-friendly

QR code scanning

Card swiping

Plug & charge

Industrial-grade durability*

Smart brightness-adjustment

Real-time progress visualization

12.1-inch touchscreen

Insert Charging Connector

Easy to charge

Extended arm

Thermal insulation

Optimized grip

* Engineered to meet IK10, the highest mechanical impact protection defined by IEC standards

Device Configuration

Typical Configuration 1

Recommended: 2 Power Units + 1 Megawatt Dispenser + 2 Interactive Naturally Cooled Dispensers^[1]

	Megawatt dispenser	Interactive naturally cooled dispenser
Dual-connector peak current ^[2]	2400 A	1000 A
Dual-connector peak power	1.44 MW	480 kW ^[3]

^[1] The maximum number of dispensers that can be configured is 4 liquid-cooled dispensers + 6 naturally cooled dispensers, or only 8 naturally cooled dispensers. Each interactive naturally cooled dispenser can replace two liquid-cooled dispensers or one naturally cooled dispenser. Configure them as required.

^[2] Refers to the charger capability. The data is obtained in the lab environment. The actual charging current may vary by vehicle model, battery, software version, and environment.

^[3] In this configuration scenario, to maximize the power of the megawatt dispenser, the interactive naturally cooled dispenser can output a maximum of 480 kW.

Ready for Evolution

Initial scale

1 power unit + 2 common charging spots for HGVs

Phase 1

2 power units + 1 megawatt charging spot for an HGV + 2 common charging spots for HGVs + 2 charging spots for passenger vehicles

Phase 2

4 power units + 2 megawatt charging spots for HGVs + 4 common charging spots for HGVs + 4 charging spots for passenger vehicles

Commercial vehicle charging spot

Passenger vehicle charging spot

Commercial vehicle charging spot

Smooth expansion*

Power unit + 1 Megawatt dispenser + 1 Naturally cooled dispenser + 1

Smooth expansion

Power unit + 2 Megawatt dispenser + 1 Naturally cooled dispenser + 1 Interactive naturally cooled dispenser + 2

* The capacity expansion uses the recommended number of dispensers when the dispensers are fully utilized at HGV charging stations.

Typical Configuration 2

Recommended: 1 Power Unit + 2 Interactive Naturally Cooled Dispensers^[1]

Dual-connector peak current ^[2]	1000 A
Dual-connector peak power	600 kW

^[1] A single power unit can be connected to a maximum of six interactive naturally cooled dispensers.

^[2] Refers to the charger capability. The data is obtained in the lab environment. The actual charging current may vary by vehicle model, battery, software version, and environment.

Power Unit Specifications

720-720 Power Unit Specifications	
Product model	DS720-720LCNA3
Module configuration	AC/DC rectifier x 6 + DC/DC charging module x 12
Output power	720 kW
Dimensions (W x D x H)	800 mm x 1700 mm x 2150 mm
Installation mode	Floor mounting (prefabrication before transportation supported)
Peak efficiency	≥ 96%
Cooling mode	Liquid cooling
IP rating	IP55
Communications port	FE, 4G (dual-SIM dual-standby)
Input voltage	380 V AC±15%; three-phase, five-wire
Input frequency	45–66 Hz
Power factor	≥ 0.99 (load ≥ 50%)
Harmonics	≤ 5% (load ≥ 50%)
Input power distribution	800 A, 3-pole AC circuit breaker x 2
Output voltage	200–1000 V DC
Maximum number of connectors	12
Regulated current precision	≤ ±1%
Regulated voltage precision	≤ ±0.5%
Operating temperature	–35°C to +55°C
Storage temperature	–40°C to +70°C
Altitude	≤ 4000 m
Relative humidity	5%–95% RH
Noise level	≤ 55 dB@25°C
Safety function	Input overvoltage protection, undervoltage protection, output overvoltage protection, constant power overload protection, short circuit protection, overtemperature protection, surge protection, emergency stop protection, insulation detection, door opening protection, contactor adhesion protection, water intrusion protection, smoke sensor alarm, etc.
Product standards	GB 39752, GB 44263, GB/T 18487.5, NB/T 33001, NB/T 33008.1
Communications port for the power unit and dispenser	FE, ring network recommended, Cat 5E FTP cable
Communication protocol for the power unit and dispenser	GOOSE + Modbus TCP
Power unit scheduling	Supported
Charging safety protection	Supported
DC ESS deployment	Supported

Dispenser Specifications

Product Series	Dispenser for HGV		Dispenser for Passenger Vehicle	
Product model	Megawatt dispenser	Interactive naturally cooled dispenser	Naturally cooled dispenser	Liquid-cooled dispenser
				
	DT1000L2-CNA1	DT500N2-CNB1	DT400N2-CNB1	DT800L1-CNB1
Dimensions (W x D x H)	900 mm x 550 mm x 2000 mm	395 mm x 495 mm x 2000 mm	390 mm x 285 mm x 1700 mm	390 mm x 295 mm x 1700 mm
Number of charging connectors	2	2	2	1
Charging cable length	2.5 m	7.4 m	5 m	3.5 m
Cooling mode	Liquid cooling	Natural cooling	Natural cooling	Liquid cooling
Screen	12.1 inches, 16:10 touchscreen + physical buttons		-	
Noise level	≤ 55 dB(A)@25°C	≤ 50 dB(A)@25°C	≤ 50 dB(A)@25°C	≤ 55 dB(A)@25°C
Operating temperature	–35°C to +55°C			
Storage temperature	–40°C to +70°C			
Output voltage	200–1000 V DC			
Relative humidity	5%–95% RH			
Altitude	≤ 4000 m			
Installation mode	Floor mounting			
IP rating	IP55			
Peak current	1200 A x 2	500 A x 2	400 A x 2	800 A
Product standards	JJG 1149-2022	GB 39752-2024, GB 44263-2024, GB/T 18487.5-2024, GB/T 27930.2-2024, JJG 1149-2022	GB 39752-2024, GB 44263-2024, GB/T 18487.5-2024, GB/T 27930.2-2024, JJG 1149-2022	GB 39752-2024, GB 44263-2024, GB/T 18487.5-2024, GB/T 27930.2-2024, JJG 1149-2022