Huawei FusionCharge Fully Liquid-Cooled Ultra-Fast Charging

Jointly Charging the Road Ahead





Advocating For Sustainable Development of Future-Proof Charging Facility

Enhanced Charging

Superior Quality

Flexible **Architecture**

Fast and Quiet High Utilization Rate Long Lifespan Low Failure Rate PV & ESS Convergence Upgradeable

FusionCharge



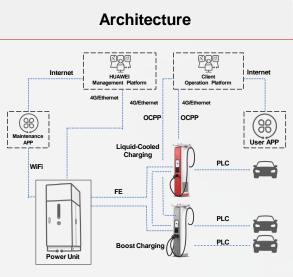


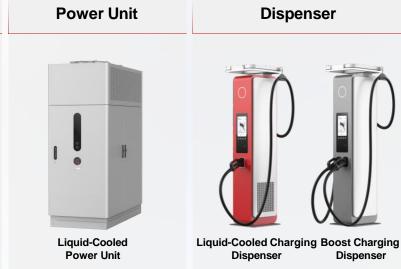
Introduction

Liquid-cooled power unit is the core part of ultra-fast DC charging system for public charging station and other sites demanding multiple fast chargers. With AC/DC and DC/DC modules decoupled, power units can better utilize power capacity and be accessible to DC ESS coupling.

An innovative liquid-cooled architecture with DC bus enables enhanced charging, superior quality and flexible architecture.

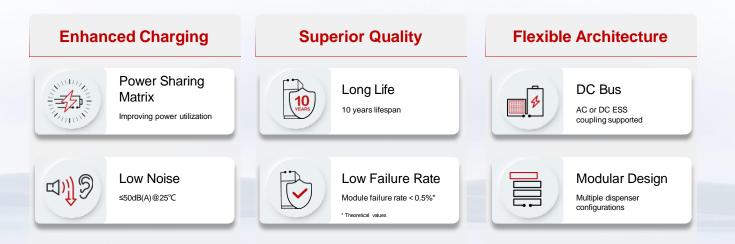






Dispenser

Product Features





Power Unit Specification

Basic Specific ations	Dimensions (W x D x H)	800 mm × 1700 mm × 2150 mm		
	Model	DS720-720LEUA2	DS720-720LEUA3	
	Power Configuration (AC/DC+DC/DC)	600kW+720kW	240kW+360kW	
	Installation Mode	Floor-mounted		
	Efficiency (Full load)	94.7%		
	Efficiency (Maximum)*	96%	95.5%	
	Cooling	Liquid cooling		
	IP Rating	IP55		
	Communication Interface	4G, Ethernet (Northbound communication)		
	Standby Power	35W		
Input Specific ations	Rated Input Voltage	2 X 400Vac, three-phase five-wire system		
	Rated Frequency	45-66 Hz		
	Rated Input Current	≤931 A (Output: 600kW, Input: 400Vac)	≤373 A (Output: 240kW, Input: 400Vac)	
	Input Module	120kW AC/DC liquid-cooled module		
	Power Factor	≥0.99 (Load≥50%)		
	THDi	≤5% (Load≥50%)		
Output Specific ations	Output Voltage	200~1000 Vdc		
	Output Module	60kW DC/DC liquid-cooled module		
	Current Ripple	≤ 1.5A @frequency<10Hz; ≤ 6A@frequency<5000Hz; ≤ 9A@frequency<150kHz		
	Voltage Ripple	≤ ±5V		
	Charging Connector Number	Max. 12 (Max. 8 x 500A)	Max. 6 (Max. 4 x 500A)	
Environ mental Specific ations	Operating Temperature	-35°C to +50°C		
	Storage Temperature	-35°C to +70°C		
	Altitude	≤4000m		
	Relative Humidity	5%~95% (Non-condensing)		
	Noise	≤ 55 dB(A)@25°C (Mute Mode), ≤ 60 dB(A)@25°C (Full load@1m)		
Compliance		IEC 61851-1, IEC 61851-23, IEC 61851-21-2		

^{*:} The test data is from the lab environment.



Huawei Reference Dispenser Specification

	Туре	Liquid-cooled	Boost	
	Model	DT500L1-EUA1	DT500N2-EUA1	
	Dimensions (W x D x H)	≤395 mm × 495 mm × 2150 mm	≤395 mm × 495 mm × 2150mm	
	Maximum Output Power*1	480kW	480kW	
	Charging Connector Number	1 (CCS2)	2 (CCS2)	
	Charging Cable Length	≥5m	≥5m	
Basic	Installation Mode	Floor-mounted	Floor-mounted	
Specifications	IP Rating	IP55	IP55	
	Cable Cooling	Liquid cooling	Natural cooling	
	Authentication	RFID reader(ISO/IEC 14443 A / B, ISO/IEC 15693, NFC) / Credit card reader (Optional) / QR code	RFID reader(ISO/IEC 14443 A / B, ISO/IEC 15693, NFC) / Credit card reader (Optional) / QR code	
	Standby Power*2	35W	35W	
	Meter Certification	MID / LNE	MID / LNE	
	Operating Temperature	-30°C to +55°C (derating from 40°C)	-30°C to +55°C (derating from 40°C)	
	Noise	≤50dB(A) @25°C (1m)	≤50dB(A) @25°C (1m)	
Environmental	Storage Temperature	-40°C to +70°C	-40°C to +70°C	
Specifications	Relative Humidity	5%RH~95%RH	5%RH~95%RH	
	Altitude	≤2000m	≤2000m	
	Output Voltage	200~1000Vdc	200~1000Vdc	
Output	Rated Output Current	425A (continuous)	$2 imes 375 ext{A}$ (continuous)	
Specifications	Maximum Output Current	500A (30min@25°C)	single connector 500A (20min@25°C)	
Compliance	IEC 61851-1, IEC 61851-23, IEC 61851-21-2, IEC 62196-1, IEC 62196-3, DIN 70121, ISO15118-2			
Protections	Overvoltage protection, short circuit protection, grounding protection, overtemperature protection, leakage protection, insulation detection, door opening protection			

^{*1:} The output power is also limited by the power unit output capability.
*2: The assumption: ambient temperature is 25° C. The lamp on the top is off. The screen is off. No charging connector is inserted for charging and no solar radiation.

Huawei Digital Power Technologies Co., Ltd.

Address: Huawei Digital Power Antuoshan Headquarters, Futian District, Shenzhen

Postal code: 518084

Website: https://digitalpower.huawei.com

Email: support@huawei.com



VDH Solar Groothandel B.V. | Finlandlaan 1, 2391 PV Hazerswoude-Dorp +31 (0)172 235 990 | info@vdh-solar.nl | www.vdh-solar.nl

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