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



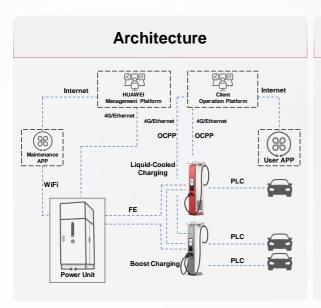


Introduction

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.







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)	95.8%		
	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	50/60 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 Voltage	200~1000 Vdc		
Output	Output Module	60kW DC/DC liquid-cooled module		
Output Specific ations	Current Ripple	≤ 1.5A @frequency<10Hz; ≤ 6A@frequency<5000Hz; ≤ 9A@frequency<150kHz		
	Voltage Ripple	≤ ±5V		
	Charging Connector Number	Max. 12 (Max. 8 x ultra-fast)	Max. 6 (Max. 4 x ultra-fast)	
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	≤ 60 dB@25°C (1m, full load)		
Complia nce		IEC 61851-1, IEC 61851-23, IEC 61851-21-2		



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	
	Charging Connector Number	1 (CCS2)	2 (CCS2)	
	Charging Cable Length	≥5m	≥5m	
Basic	Installation Mode	Floor-mounted	Floor-mounted	
Specifications	IP Rating	IP55	IP55	
	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	45W	50W	
	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@25°C (1m, full load)	≤55dB@25°C (1m, full load)	
Environmental Specifications	Storage Temperature	-40°C to +70°C	-40°C to +70°C	
	Relative Humidity	5%RH~95%RH	5%RH~95%RH	
	Altitude	≤2000m	≤2000m	
	Output Voltage	200~1000Vdc	200~1000Vdc	
Output Specifications	Rated Output Current	425A (continuous)	2 × 375A (continuous)	
	Maximum Output Current	500A (30min@25°C)	2 × 500A (10min@25°C)	
Compliance		IEC 61851-1, IEC 61851-23, IEC 61851-21-2, IEC 62196-1, IEC 62196-3, DIN 70121, ISO 15118-2		
Protections	Overvoltage protection, short circuit protection, grounding protection, overtemperature protection, leakage protection insulation detection, door opening protection			

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