Huawei FusionCharge

Fully Liquid-Cooled Ultra-Fast Charging
(Reactive power compensation)

Jointly Charging the Road Ahead



HUAWEI



Power Unit (RPC) Specification

Basic Specifications	Dimensions (W x D x H)	800 mm × 1700 mm × 2150 mm	
	Model	DS720-720LEUA4	DS720-720LEUA4
	Power Configuration (AC/DC+DC/DC)	600kW+720kW	240kW+360kW
	Weight	< 1520kg(including coolant)	< 1270kg(including coolant)
	Installation Mode	Floor-mounted	
	Efficiency (Maximum)	96%	
	Cooling	Liquid cooling	
	IP Rating	IP55	
	Communication Interface	4G,Ethernet(Northbound communication)	
	Standby Power	35W	
Input Specifications	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 Specifications	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. 6
Environmental Specifications	Operating Temperature	-35°C to +50°C	
	Storage Temperature	-40°C to +70°C	
	Altitude	≤4000m	
	Relative Humidity	5%~95% (Non-condensing)	
	Noise	≤ 55 dB(A)@25℃ (silent Mode), ≤ 60 dB(A)@25℃ (standard mode)	
Compliance		IEC 61851-1, IEC 61851-23, IEC 61851-21-2	

*: The test data is from the lab environment.



Dispenser Specification

Basic Specifications	Type	Liquid-cooled	Boost
	Model	DT500L1-EUA2	DT500N2-EUA2
	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
	Installation Mode	Floor-mounted	Floor-mounted
	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
Environmental Specifications	Operating Temperature	-30°C to +55°C (derating from 40°C)	-30℃ to +55℃ (derating from 40℃)
	Noise	≤50dB(A) @25℃ (1m)	≤50dB(A) @25℃ (1m)
	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 Specifications	Output Voltage	200~1000Vdc	200~1000Vdc
	Rated Output Current	425A (continuous)	2 × 375A (continuous)
	Maximum Output Current	500 A (73 min@25℃)	single connector 500 A (46 min@25℃)
Compliance	IEC 61851-1, IEC 61851-23, IEC 61851-24, 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.

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