Fully Liquid-Cooled Ultra-Fast Charging





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



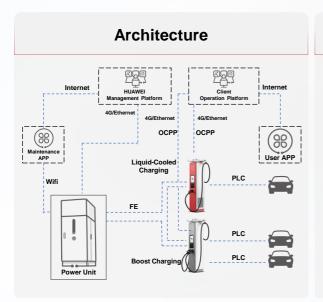


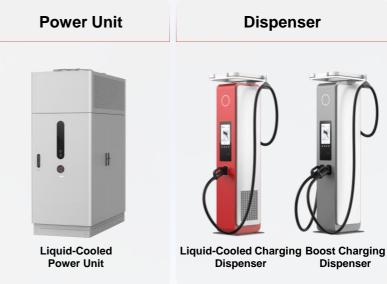
Introduction

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









Power Unit Specification

Basic Specific ations	Dimensions (W x D x H)	800 mm × 1700 mm × 2150 mm		
	Power Configuration (AC/DC+DC/DC)	600kW+720kW	240kW+360kW	
	Installation Mode	Floor-mounted		
	Efficiency (Full load)	94.7%		
	Efficiency (Maximum)	95.5%		
	Cooling	Liquid cooling		
	IP Rating	IP55		
	Communication Interface	4G, Ethernet (Northbound communication)		
	Standby Power	3 5W	30W	
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)	≤354 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 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	≤ 55 dB@25°C (Mute Mode), ≤ 60 dB@25°C (Standard mode)		
Complia nce		IEC 61851-1, IEC 61851-23, IEC 61851-21-2		



Huawei Reference Dispenser Specification

	Туре	Liquid-cooled	Boost	
	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	≥4.5m	≥4.5m	
	Installation Mode	Floor-mounted	Floor-mounted	
Basic Specifications	IP Rating	IP55	IP55	
Specifications	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	≤55dB@25°C	≤50dB@25°C	
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 Specifications	Output Voltage	200~1000Vdc	200~1000Vdc	
Specifications	Output Current	425A (continuous, max. 500A)	2 × 375A (continuous, max. 2 × 500A)	
Compliance		IEC 61851-1, IEC 61851-23, IEC 61851-21-2, IEC 62196-1, IEC 62196-3, DIN 70121, ISO 15118		
Protections	Overvoltage protection, short circuit protection, grounding protection, overtemperature protection, leakage protection, insulation detection, door opening protection			

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

Trademark Notice

W HUAWEI HUAWEI **W**, are trademarks or registered trademarks of Huawei Technologies Co., Ltd.Other trademarks, product, service and company names mentioned are the property of their respective owners.

General Disclaimer

The information in this document may contain predictive statement including, without limitation, statements regarding the future financial and operating results, future product portfolios, new technologies, etc. There are a number of factors that could cause actual results and developments to differ materially from those expressed or implied in the predictive statements. Therefore, such information is provided for reference purpose only and constitutes neither an offer nor an acceptance. Huawei may change the information at any time without notice.

Copyright © 2024 Huawei Digital Power Technologies Co., Ltd.All Rights Reserved.

No part of this document may be reproduced or transmitted in any form or by any means without prior written consent of Huawei Digital Power Technologies Co., Ltd.