

Technical Specification (Power Cabinet)



AC Input	EVC16-DH720K10P12(IN)
Input Voltage	323-475Vac (L1,L2,L3,N,PE)
Max Input Current	1375A
Earthing System	TT/TN
Input Frequency	50/60Hz
Harmonic Distortion	<5%
Protection	Overcurrent, Overvoltage, Undervoltage, Ground fault detection, Surge protection
User Interface	
HMI	7.0-inch IPS-TFT-LCD Touchscreen
Communication Protocol	Customized
Liquid Level Visible Window	Liquid cooling level timely checknig (High Level, Lowel Level)
LED Indicator	Three color LED light (Standby, Running, Fault)
Energy Metering	Class A(DC), CE, PTB (optional), Internal installation
General Characteristics	
Power Factor	≥ 0.99
Start Time (S)	3-8
Efficiency	96.5 Max
Emergency Stop Button	Yes
Intelligent Power Distribution	Yes
IP Rating	IP55 outdoor use and IK-10
Operating Temperature	-30°C ~ +55°C
Storage Temperature	-40°C ~ +75°C
Relative Humidity	≤95% non-condensation
Maximum Altitude	< 2000 m (2000 to 5000 m with power derating)
Cooling Mode	Liquid Cooling
Noise Level	≤70dB
Dimension (W*H*D)	1786mm*2169mm*852mm
Enclosure Type	Galvanizing plate SECC
Warranty	24 months, warranty can be discussed



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EVC16 DC High Power

480kW- 720kW



Commercial

EVC16 DC High Power

480kW -720kW



Liquid Cooling EV Charging Solution

Ultra Fast & Convenient

- Max. charging power up to 600kW with a single liquid cooling cable, up to 720kW per dispenser
- Various modes of charging (with timing charging, electricity (kWh) or cost setting charging; automatic charging)

Safe & Reliable

- High-power module platform with nuclear safety level
- Trouble-free operation with intelligent charging process control and complete charging process monitoring and protection

Efficient & Accurate

- Advanced three-phase PFC circuit topology
- Power factor ≥ 0.99 , harmonic distortion rate $\leq 5\%$
- Advanced digital current sharing technology for higher accuracy & anti-interference
- Pioneer module sleep technology and "wheel drive" technology

Scalable & Easy to Maintain

- Track, manage, and optimize your charging via the INVT Charge App
- In real-time dynamically balance energy to reduce electricity costs

Technical Specification (Dispenser)



Specification	Liquid Cooling Dispenser	Air Cooling Dispenser
Input Mode	DC Input	DC Input
Input /Output Voltage	250-1000 Vdc	250-1000 Vdc
Input /Output Current	850A Max (Liquid cooling:600A , Fan Cooling : GB/T 250A, CCS2 200A)	GBT:250A Max CCS2:200A Max
Connector Quantity	2	2
Constant Power Range	300-1000 Vdc	300-1000 Vdc
Charging Mode	Mode 4	Mode 4
AC Power Input(Control)	198-242 Vac	198-242 Vac
Output Power Range	600-720kW	500kW (1000V@250A, Two connectors)
Operating Temperature	-30°C ~ +55°C	-30°C ~ +55°C
Storage Temperature	-40°C ~ +75°C	-40°C ~ +75°C
Cable Length	3.5m	5m
Voltage Stabilized Accuracy	$\leq \pm 0.5\%$	$\pm 0.5\%$
Efficiency	$\geq 96\%$	$\geq 96\%$
Current Equalization Unbalance	$\pm 5\%$	$\pm 5\%$
Measuring Accuracy	Class 1	Class 1
Ground Impedance	$\leq 0.1\Omega$	$\leq 0.1\Omega$
Dimension (W*H*D)	560mm*1760mm*290mm	560mm*1760mm*290mm(W*D*H)
Noise Level	≤ 65 dB	≤ 65 dB
IP Rating	IP55	IP55

Other Characteristic	Liquid Cooling Dispenser	Air Cooling Dispenser
Connectivity	4G / Ethernet	4G / Ethernet
Communication Protocols	OCPP1.6 J (OCPP 2.0.1 optional)	OCPP1.6 J (OCPP 2.0.1 optional)
Contactors Adhesion Detection	Yes	Yes
Liquid Level Alarm	Yes	Yes
User Interface	7.0-inch IPS-TFT-LCD Touchscreen	7.0-inch IPS-TFT-LCD Touchscreen
Remote Upgrade	Yes	Yes
Cable Management	Optional	Optional
Battery Voltage Detection	Yes	Yes
Authentication	ISO14443 TypeA, MIFARE® ONE (M1)Card, APP, QR Code, Credit Card (Optional)	ISO14443 TypeA, MIFARE® ONE (M1)Card, APP, QR Code, Credit Card (Optional)
Emergency Stop	Yes	Yes
Mounting	Floor Standard	Floor Standard
Protection	*Input over and under voltage protection, Output over current protection, Output over voltage protection, Output short circuit protection, Over temperature protection, battery anti-reaction connection protection, Insulation detection protection, Anti-Dumping protection, Flood protection, Smoke detection.*	
Warranty	24 months , warranty can be discussed	24 months , warranty can be discussed