Datasheet

DC 800

Supercharging Station

Liquid Cooled Supercharging

The EVbee supercharging system integrates liquid-cooled power modules and cables, ensuring quiet operation and enhanced durability of power cabinets.
This advanced thermal management solution enables the system to deliver the outputs up to 1500A/1000V (MCS) and 800A/1000V (CCS2).

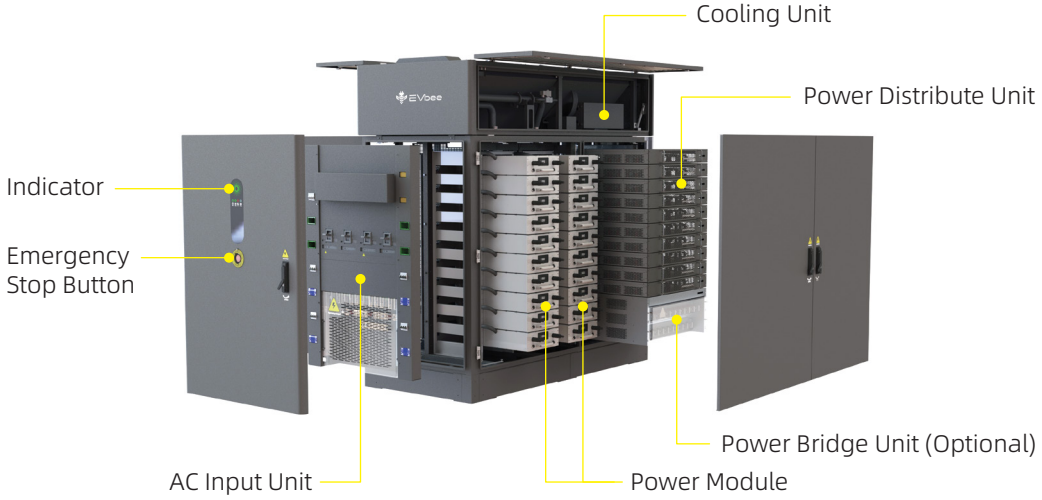


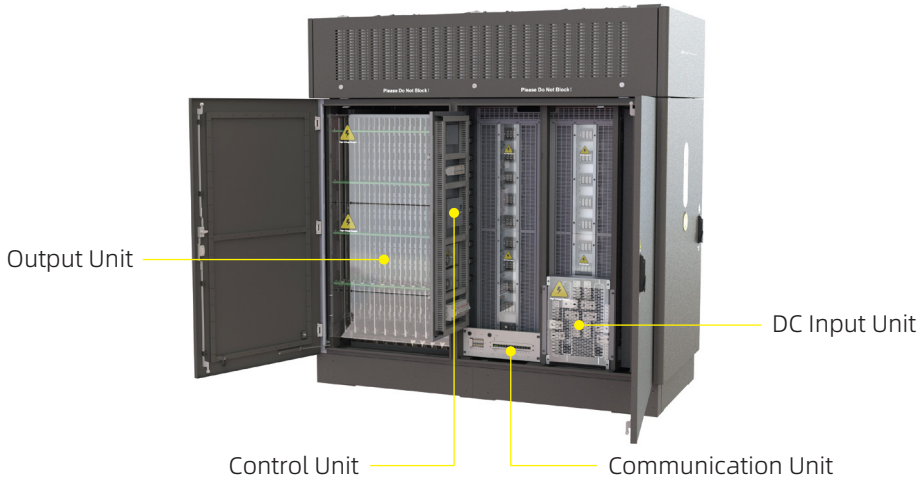
Features (Power Cabinet)



- Liquid cooling
- Seamlessly integrate with PV and ESS
- Modular design
- Full matrix power allocation
- 10 outputs
- Scalable up to megawatts (Max 5.1MW)
- C5-M anti-corrosion degree
- IP55 IK10 protection degree

Modular Design (Power Cabinet)





Technical Data (Power Cabinet)

Model	EVB-CE-DCH800-19A	
Input	**AC**	**DC**
Input Voltage	400Vac±15%	250~825Vdc (250~600Vdc Power Derating)
Max Input Current	1444A	1333A
Rated Frequency	50/60Hz	-
Grid Type	TN, TT Grid	ESS, PV
Power Factor	≥0.98 (50%~100% Rated Power)	-
THD	≤5% (50%~100% Rated Power)	-

Output	
Rated Power	800kW
Output Voltage Range	150~1000Vdc
Output Current Range	6.5~2660A
Number of Outlets	10
Efficiency	≥96% (Rated), ≥97% (Peak)

Operation & Dimensions	
Operating Temperature	-30℃~+50℃
Operating Humidity	0~95%RH
Operating Altitude	≤2000m, Derating > 2000m
Storage Temperature	-30℃~+70℃
Cooling Mode	Liquid Cooled
IP/IK Degree	IP55, IK10 (Metal Enclosure)
Anti-corrosion Degree	C5-M
Noise	≤55dB Silent Mode, ≤60dB Standard Mode
Dimensions (mm)	H2170*W1000*D2100
Weight	2035kg

System Specifications	
Bridge Charging	Optional (Max 5.1MW)
Communication Mode	4G, WiFi, Ethernet, Bluetooth
External Communication	Ethernet, RS485, CAN
Standards	IEC 61851-1, IEC 61851-21-2, IEC 61851-23, IEC 61851-24
Cloud Communication Protocol	OCPP 1.6, OCPP 2.0.1
Protection	Leakage protection, input short circuit protection, input overvoltage protection, input undervoltage protection, input phase loss protection, output overvoltage protection, output short circuit protection, output overcurrent protection, output reverse connection protection, surge protection, grounding protection, overload protection, over temperature protection, contactor adhesion protection, emergency stop protection, door opening protection, water immersion protection, smoke protection, inclined protection.

Features (Dispenser)



MCS CCS2 CCS2

- MCS liquid cooled 1500A
- CCS2 liquid cooled 500A (boost 800A)
- CCS2 natural cooled 375A (boost 500A)
- Integrated cable management device
- Design with consideration for disabled users
- C5-M anti-corrosion degree
- IP55 IK10 protection degree

Technical Data (Dispenser)

Output	**MCS Liquid Cooled**	**CCS2 Liquid Cooled**	**CCS2 Natural Cooled**
Model	**EVB-CE-DCD02M-251**	**EVB-CE-DCD500-211**	**EVB-CE-DCD750-222**
Rated Input & Output Power	2.25MW	500kW	375kW*2
Input & Output Voltage Range	150~1500Vdc	150~1000Vdc	150~1000Vdc
Input & Output Current Range	6.5~1500A	6.5~500A (Boost 800A)	6.5~375A (Boost 500A)*2
Number of Connectors	1	1	2
Charging Cable Length	3m	5m	5m
Connector Type	MCS	CCS2	CCS2
Operation & Dimensions			
Operating Temperature	-30℃~+50℃		
Operating Humidity	0~95%RH		
Operating Altitude	≤2000m, Derating > 2000m		
Storage Temperature	-30℃~+70℃		
Cooling Mode	Liquid Cooled	Liquid Cooled	Natural Cooled
IP/IK Degree	IP55, IK10 (Metal Enclosure)		
Anti-corrosion Degree	C5-M		
Noise	≤55dB	H1700*W320*D500	H1700*W320*D500
Dimensions (mm)	H1700*W320*D700	113kg	123kg
Weight	150kg		
System Specifications			
Authentication Mode	RFID Card, Scan Code, Local Whitelist, Credit Card (Optional)		
Standards	IEC 61851-1, IEC 61851-21-2, IEC 61851-23, IEC 61851-24		
EV Communication	ISO 15118, DIN 70121 (Only for CCS2)		
Protection	Output overvoltage protection, output short circuit protection, output overcurrent protection, output reverse connection protection, surge protection, grounding protection, overload protection, over temperature protection, contactor adhesion protection, insulation detection protection, emergency stop protection, door opening protection, water immersion protection, smoke protection, inclined protection.		

Features (DC Box)



- Modular design
- Remote operation and maintenance
- Comprehensive protection
- Stable operation
- C5-M anti-corrosion degree
- IP55 IK10 protection degree

Technical Data (DC Box)

Model	**EVB-CE-DCD01M-244**
Rated Input & Output Power	1400kW
Input & Output Voltage Range	100~1000Vdc
Max Input & Output Current	1400A
Number of Outlets	4
Operating Temperature	-30℃~50℃
Operating Humidity	≤95% Relative Humidity
Operating Altitude	≤2000m, Derating > 2000m
Storage Temperature	-30℃~70℃
IP/IK Degree	IP55, IK10 (Metal Enclosure)
Anti-corrosion Degree	C5-M
Noise Level	≤55dB at 1m Distance/25℃
Dimensions (mm)	H1000*W1670*D420
Weight	240kg
Standards	IEC 61851-1, IEC 61439-1, IEC 61439-2
Protections	Leakage protection, input overvoltage protection, input undervoltage protection, short circuit protection, output overcurrent protection, reverse connection protection, surge protection, grounding protection, over temperature protection, contactor adhesion protection, emergency stop protection, door opening protection, water immersion protection, smoke protection, inclined protection.

Charging Made Carefree

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