Datasheet

DC 180
Public Charger

Fast Charging Station

Designed for refuelling stations, motorways, retail and urban applications.



Features

180kW Ultra-Fast Charging

The DC 180 provides ultra-fast 180kW DC charging with a future-proof output of 350A & 1000V, allowing your EV to reach full charge in 35-40 minutes.

Large AD Screen

The DC 180 features a sleek 21.5" AD screen bringing the charging station to life with vibrant visuals. The screen's size and paired-back design ensures that any information, targeted messaging or brand content is viewed with ease. Maximise AD revenue and increase your long-term ROI with the DC 180.

Smart Allocation & Parallel DC Charging

The charger features smart temperature control of equipment and charging connectors. Comprehensive protection against overvoltage, undervoltage, overloading as well as ground protection and SPD protection together ensure that your safety when charging is always garuanteed.

Scalable Power Levels

As your demands change, so does the DC 180's capability. The charger's design means power levels are scalable and retrofittable, perfect for maintenance whenever it is needed.

Intelligent Safety

The charger features smart temperature control of equipment and charging connectors. Comprehensive protection against overvoltage, undervoltage, overloading as well as ground protection and SPD protection together ensure that your safety when charging is always garuanteed.

Modular Design for Easy Maintenance

The design of the DC 180 is highly modular, which reduces production time and costs.



Core Advantages

Safety

- Intelligent operation and maintenance
- Hardware protection
- Software protection
- Intelligent temperature control
- Platform monitoring

Smart Functionality

- Digital intelligence
- Intelligent allocation
- Remote monitoring
- Remote upgrade
- Remote diagnosis

Reliability

- Stable and reliable
- 99.9% Uptime
- Passed 117 rigorous tests
- Professional certification

Flexibility

- Convenient and flexible
- Modular design
- Easy maintenance
- Platform interconnectivity
- Complete technology chain

Scenarios



Inner-city Fast Charging Station



Commercial Center



Bus Station



Expressway Service Area



Fleet Charging

Inner-city Fast Charging Station	Designed specifically to power a wide range of electric vehicles, including battery electric vehicles (BEVs), plug-in hybrid electric vehicles (PHEVs), taxis, and logistics vehicles.
Commercial Center	Perfect for large commercial centers, including transportation hubs, shopping centers, technology parks, and retail parks. Suitable for use with taxi apps, logistics vehicles, BEVs, and PHEVs.
Bus Station	Ideal for charging small and large bus fleets regardless of battery capacity, supporting quick-start charging and smart charging modes.
Expressway Service Area	Gas stations, electric vehicle charging stations, and service areas are all application scenarios for EV charging with the EVbee DC 180.
Fleet Charging	Suitable for charging standard electric vehicles and electric truck fleets, including vehicle delivery centers, online taxi service providers, and car rental companies.

Modular Design

DC Output Module
- DC contactor
- Fuse protector
- Integrated metering chip

Control Unit Module
- Communication control unit
- Power supply
- ITB board
- RCBO



Human Machine Interface
- Indicator
- Display
- RFID card
- POS

Power Module Unit
- Charging Power Module x 6

AC Input Module
- Moulded case circuit breaker
- Surge protector
- AC contactor

Advantages of Modular Design

Prefabrication Production
Efficient Delivery

Double Layer Protection
Eliminate Electrical Risks

Modular Code Identification
Convenient Replacement

Reduce Operating Costs
Increase Income

Technical Data

System Specification	DC 180	DC 150	DC 120	DC 90
Part Number	EVB-CE-DCT180-102	EVB-CE-DCT150-102	EVB-CE-DCT120-102	EVB-CE-DCT090-102
DC Interface	CCS2			
Application	Indoor or outdoor			
Operation Temperature	-30°C to +50°C			
Storage Temperature	-40°C to +80°C			
Humidity	5%~95%			
Peak Efficiency	≥96% (SiC ≥97%)			

Power Supply	
AC Input Voltage	400Vac +/-10% (3P+N+PE), 50~60Hz
Network Type	TN-C-S, TN-S, TT
THDi	<5% at normal power
Power Factor	≥0.98
Overvoltage Category	OVC III, DIN EN 60664-1

DC Output	DC 180	DC 150	DC 120	DC 90
Maximum DC Output Power	180kW	150kW	120kW	90kW
Output Voltage Range	150~1000Vdc			
Output Current	350A max.	350A max.	350A max.	300A max.
Connector Rate Current	Rate current 250A			
Charging Connector	CCS2*2			
Cable Length	5m (7m optional)			

General	
Certifications	CE/UKCA/CB/TUV
DC-Protocol Standard	DIN SPEC 70121
Charging System	IEC 61851-1 ed 3, IEC 61851-21-2 ed 1, IEC 61851-23 ed 1, IEC 61851-24 ed 1, IEC 62196-2, IEC 62196-3, IEC 61000
RFID System	ISO/IEC 14443A: MIFARE Classic EV1
Network Connections	4G GSM-/CDMA modem, 10/100Base T-ethernet, WiFi, Option-Router: 3G/4G
Communications Protocol	OCPP 1.6J, OCPP 2.0.1 (future)
User Interface	10.1" display, LCD
POS Terminal	Optional (Payter 66 / Apollo)
Cable Management	Optional
Cooling Mode	Fan cooling
Noise Level Adjustment	<65dB on Full Load (Front 2m / 25 °C)
Protection	RCD 30mA Type A, UVP, OVP, Surge protection, OCP, Control pilot fault, Residual current protection, OTP, Relay welding detection
Protection Rating	IP54
Enclosure Protection	IK 10
Design Life	10 years
Dimensions(mm)	H2017 x W1156(800+178x2) x D700
Charger Weight	<580kg / <565kg / <550kg / <535kg

Charging Made Carefree

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