

MODULAR.
ULTRA-FAST.
SLEEK.

AMPERFIED DYNAMIC DC

PRODUCT DATA





PRODUCT DATA

All information is provided without warranty. Subject to change and errors.

**Dynamic DC
Dispenser DS300**

**Dynamic DC
Dispenser DS500**

SYSTEM ARCHITECTURE

Modular system	Central power unit with connected dispensers	
Fast charging class	HPC	UHPC
Max. number of dispensers / charging points per power unit ¹	6 / 12	4 / 8
Configurations ¹	Mixed configurations possible	

CHARGING INTERFACE

Number of charging cables	2 x CCS2	
Charging cable length	3 m or 5,5 m	
Cable break monitoring	Yes, e.g. for cable theft detection	
Charging cable cooling	Passive (air-cooled) with temperature monitoring during the charging process	
Cable management	Yes, optional	

CHARGING CURRENT AND POWER PER CHARGING POINT

Output voltage range	150 - 1000 VDC	
Continuous current, dependent on ambient temperature	Up to 250 A	Up to 380 A
Maximum current	300 A	500 A
Max. charging power at 1000 VDC ¹	300 kW	500 kW
Max. charging power at 800 VDC ¹	240 kW	400 kW
Max. charging power at 400 VDC ¹	120 kW	200 kW
Granularity ¹ of the output power	60 kW	

COMPLIANCE WITH MEASUREMENT AND CALIBRATION LAW

Compliance with measurement and calibration law	Yes, optional	
Metering system	DC meter in accordance with German calibration law / MID Directive 2014/32/EU	
Display of measured values	Yes, illuminated display	
Payment terminals	Yes, optional: Payter Apollo or FEIG cVend touch (evPay)	
Payment methods ³	Credit, debit, giro and charging cards, smartphone, etc.	

INPUT SPECIFICATION

Auxiliary power supply ²	Single-phase AC, 6 A, 50 Hz, 230 V, max. 2 x 1.5 mm ²	
Communication interface	1 x RJ45	
AC surge protection	Typ 2+3	
DC surge protection	Typ 2	
Network surge protection	Typ 1	

ENVIRONMENTAL CONDITIONS

Protection against dust and water	IP54	
Impact resistance	Housing IK10, user interface IK08	

¹ Depending on central power unit

² Provided by the central power unit

³ Depending on the payment terminal and service provider



PRODUCT DATA

All information is provided without warranty. Subject to change and errors.

Dynamic DC Dispenser DS300

Dynamic DC Dispenser DS500

OPERATING CONDITIONS

Ambient temperature ³	-25 °C + 40 °C
Storage temperature	-35 °C + 70 °C
Operating altitude	Max. 2000 m above NHN
Relative humidity	5 to 95%, non-condensing

INSTALLATION

Installation location	Outdoor and indoor installation
Installation	single, back2back and back2wall
Type of installation	Ground-mounted installation on a prefabricated foundation or concrete foundation

ENCLOSURE

Material	Stainless steel V2A, powder-coated	
Height	2051 mm (excluding antenna, excluding cable management)	
Width	600 mm	
Depth	236 mm (base), 270 mm (including door and front panel/cover)	
Weight	Approx. 170 kg	Approx. 180 kg
Locking mechanism	3-point locking mechanism with swing handle and half cylinder in accordance with DIN 18252	

USER INTERFACE

Integrated status display	LED strip in the upper part of the housing, on all sides, per charging point	
User interface panel	15.6" touchscreen, anti-glare, max. brightness 1000 cd/m ²	
Brightness sensor	Yes	
Proximity sensor	Yes	
Language selection	Yes	

ERGONOMICS AND ACCESSIBILITY

Display control elements	accessible control area
Center height of the charging connector	accessible handle height of 1020 mm
Parking holder for charging connector	Ergonomically inclined parking holder (45°)

AUTHENTICATION

RFID	Yes
Plug & Charge	Yes
Autocharge	Yes

COMMUNICATION

LAN	Yes
Mobilfunk	2 x LTE
GPS	Yes, for location tracking
Backend communication	OCPP 1.6 J and OCPP 2.0.1

COMMUNICATION WITH THE VEHICLE

Charging process	DIN SPEC 70121, ISO 15118 series
------------------	----------------------------------

CYBERSECURITY

RED DA	Yes, in accordance with RED DA 3.3 (d) & (f)
--------	--

¹ Depending on central power unit

² Provided by the central power unit

³ Depending on the payment terminal and service provider



PRODUCT DATA

All information is provided without warranty. Subject to change and errors.

Dynamic DC
Dispenser DS300

Dynamic DC
Dispenser DS500

SERVICE AND MAINTENANCE

Software Updates	local / remote
Diagnostics	local / remote
Service door	Lockable front door for servicing electrical components; filter replacement possible from the outside

ACCESSORIES AND EQUIPMENT OPTIONS

Disconnect switch	4-pole DC switch disconnecter
User interface branding	Customizable
Housing branding	Customizable foil wrapping

STANDARDS AND NORMS

Electrical safety	EN IEC 61851-1, EN IEC 61851-23, EN IEC 61439-7
Safety requirements for radio equipment	DIN EN 18031-1 & -3
Protection class	I
Overvoltage category	III
Communication protocols	EN IEC 61851-24, DIN SPEC 70121, ISO 15118 series
RFID	ISO14443A/B, ETSI EN 300 330
EMC emissions and immunity	IEC 61851-21-2:2021 (Class A), DIN EN 50470
Wireless	EN 301 511, EN 301 908-1
Ethernet	IEEE 802.3/802.3u
Recyclability	In accordance with EU Directive 2012/19/EU on waste electrical and electronic equipment (WEEE)



Cost-
efficient



Scalable &
flexible



Space-
saving



Ultra-
fast



High
availability



Experience industrial-grade DC fast charging.

Learn more about the Amperfied Dynamic DC fast charging system and our unique availability model: amperfied.de/en/dc-schnellladelesung

+49 (0)6222 82-2266 \ support@amperfied.com \ www.amperfied.de