

# AMPERFIED CONNECT.PUBLIC PUBLIC AC CHARGING STATION



## **Technical highlights of the Amperfiied connect.public**

- \ Two charging points rated up to 22 kW per station
- \ ISO 15118 for plug & charge
- \ 10-inch colour display for intuitive control
- \ Minimum installation work required thanks to optional electric service panel that complies with the technical connection conditions (TAB)
- \ Barrier-free design for easy access
- \ Customisable foiling design

## **Ultra-modern communication with commercial backends and invoicing in compliance with calibration laws**

- \ Data transfer via mobile communications or LAN
- \ OCPP 1.5 / 1.6 - compatibility
- \ Authentication via RFID, plug & charge (ISO 15118), mobile app or text message
- \ Free charging without authentication

## **Integrated dynamic load management for up to 250 charging points for efficient distribution of the available electrical power**

- \ External electricity meters can be integrated via Modbus TCP
- \ Phase-specific load management to avoid unbalanced loads
- \ Load management via OCPP including smart charging profiles
- \ Integration into existing energy management solutions via Modbus or EEBus

# TECHNICAL DATA

Product information	
Model	connect.public
Packaging unit	1
Scope of supply	Operating instructions, mounting materials for the foundation, pre-fabricated foundation (optional)

Housing	
Design	Vertical column
Mounting type	Bolted connection into foundation
Materials	Aluminium, stainless steel, galvanised sheet metal
Coating	DB 703 powder coating
Dimensions (H x W x D) (mm)	1,413 x 455 x 379/528 mm
Weight	Approx. 86 kg
Display dimensions	10" (1,280 x 800 px)
Standard	EN61439-7
Counter meter panel	VDE-AR-N 4100
Lock	Dual pivoted lever with dual lock in accordance with VDE-AR-N 4100

Vehicle connection	
Number of charging points	2
Charging connections	Type 2 (IEC 62196)
Output voltage	400 V
Max. charging current	3 x 32 A each
Max. charging power	22 kW each

Fuse protection per charging point	
MCB	32 A, 3-pole, C characteristic including state signalling contact
RCCB	Fault current circuit breaker, type A, 30 mA including status notification
RCMB	DC fault detection > 6 mA
Energy meter	DZG three-phase current meter, accuracy class B
Installation protection	> 4-pole

Ambient conditions	
Ambient temperature (°C)	-25°C to +43°C
Permitted relative humidity (%)	5% to 95%, non-condensing
Temperature range for storage/transport (°C)	-25°C to +80°C
Protection class	I
Overvoltage category	III
Type of protection	IP54 (protected against water spray)
Mechanical protection	IK 10
Internal consumption	32.2 W

Charging monitoring	
Protocol	OCPP 1.5 and 1.6 (JSON, SOAP)
Status information	Display, LED
Authentication	RFID (Mifare Classic, Desfire EV 2 and additional 13.56 MHz RFID standards)
Number of simultaneous users	Max. 2 (local charging management)

Connectivity	
Interfaces	USB config USB host Ethernet RJ-45 (LAN)
Mobile communications	2G (GSM, GPRS, EDGE), 3G (UMTS) & 4G (LTE) (micro SIM)
Standards	ISO 15118

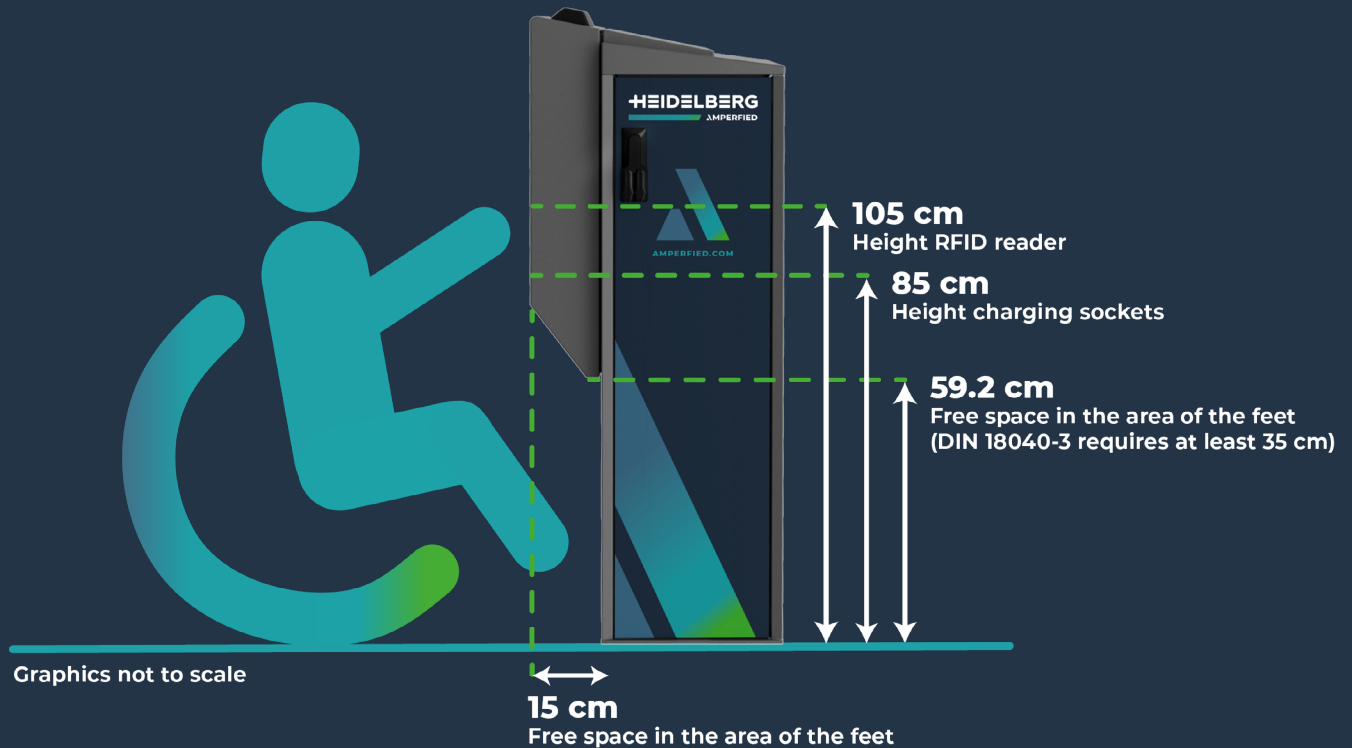
Mains connection		
	connect.public	connect.public with electric service panel
Supply	Max. 5 x 95 mm²	
Rated voltage	230 V - 400 V	
Rated frequency	50 Hz AC	
Power consumption (TNC, TNS)	Max. 44 kW (depending on variant)	Max. 30.4 kW*
Current (TNC, TNS)	Max. 63 A	Max. 44 A*
Overvoltage protection	Type 1 + 2 + 3 combined lightning current and surge arrester	
Integrated counter metering field	–	Counter metering field in accordance with VDE-AR-N 4100  · Without meter panel termination point (exception in section 12.3.2 VDE-AR-N 4100), communication through integrated controller.  · Without selective electric cutout – exception as per section 12.5 of VDE-AR-N 4100.
Integrated electric service panel	–	Electric service panel as per DIN 43627; 3x NH00 protection; housing protection rating IP54; protection class II; separator device to customer system as per VDE 0100-530
Junction box	As per norms of standard series EN 61439	–
Charging mode	Mode 3 (EN61581-1)	

Conformity		
	connect.public	connect.public with electric service panel
Directives	2014/53/EU Radio Equipment Directive 2011/65/EU RoHS Directive Measurement and Calibration Ordinance	
Applied standards	EN 61851-1; EN 61851-21-2 EN 61851-22; EN 61439-7; EN 50364; EN 62311; ETSI EN 300 328 V2.2.2; ETSI EN 300 330 V2.1.1; ETSI EN 301 489-1 V2.2.3; ETSI EN 301 489-3 V2.2.0 ETSI EN 301 489-17 V.3.2.4	EN 61851-1; EN 61851-21-2 EN 61851-22; EN 61439-7; EN 50364; EN 62311; ETSI EN 300 328 V2.2.2; ETSI EN 300 330 V2.1.1; ETSI EN 301 489-1 V2.2.3; ETSI EN 301 489-3 V2.2.0 ETSI EN 301 489-17 V.3.2.4 VDE-AR-N 4100
Calibration Law Conformity	EN 50470-1; EN 50470-3 REA document 6-A, PTB-A 50.7	
Miscellaneous regulations	Also with accessible design for users with limited mobility as per DIN 18040-3	

*\* depending on the installed electricity meter of the power supply company*

# AN EXAMPLE OF AN ACCESSIBLE AC CHARGING STATION: **AMPERFIED CONNECT.PUBLIC**

The Amperfied connect.public is an outstanding example of barrier-free charging infrastructure, which ensures convenient and easy use for all people.



## DO YOU HAVE ANY QUESTIONS?

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