ebee
SMART TECHNOLOGIES
A BENDER GROUP COMPANY

BENDER
The Power in Electrical Safety©

CHARGESPOT BERLIN

SUPPLIED BY BENDER UK

CHARGESPOT BERLIN

Meet the Chargespot Berlin –
a compact, cost effective, smart public charging solution designed to be easily mounted on streetlights, walls and similar street furniture.

A SOLUTION FOR EVERY MARKET

Ebee conforms to all relevant standards currently on the market. As a result, our Chargespot Berlin is universally applicable and easily connected to our customer's desired backend management system.

The Chargespot Berlin features:

- 22kW power rating, other options available
- ISO 15118 communication with the vehicle built-in by default
- Smart meter, MID certified and compliant to german Eichrecht
- Optional interfaces for various smart city applications
- Dynamic load management, Master / Slave based for up to 250 charge points
- Frequent software updates with new features

STAY IN TOUCH

The Chargespot Berlin communicates seamlessly between the backend and user with low data volume, by offering:

- Data transfer through GSM, LAN or WLAN
- OCPP 1.5 / 1.6 compatibility tested with 20+ commercial backends on the market
- Roaming with OICP 2.0
- Authorization with RFID, Mobile App, or SMS or choose to provide free charging without authorization

LOAD AND ENERGY MANAGEMENT

Mulitple chargespots can form a grid to distribute available energy in a configurable, highly dynamic and effective fashion:

Grid Chargespots are interconnected and interact in a Dynamic Load Management (DLM) grid
Configurable Different distribution algorithms alternatives are supported (Fair Trade, Round Robin, Priority based, …)
Dynamic The supply of energy is balanced dynamically across all electric cars to be charged
Effective Every last ampere will be distributed

OUR CONTROLLER

The Chargespot Berlin is designed around the CC612 Charge Controller, developed and programmed by the ebee team and industrialized through our strong partner, the Bender Group. If you wish to purchase the Charge Controller separately, please contact us or use the link below to the Bender website: www.bender-uk.com

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TECHNICAL SPECIFICATIONS

CHARGE SPOT

Charge plug / socket	Type 2 socket (European standard with shutter), Type 1 cable & plug for US
Locking	Optional socket actuator and lock release module
Power rating	up to 22 kW
Standard compliance	ISO / IEC 62196, ISO / IEC61851-1 & -22, ISO / IEC15118 ready (Plug'n'Charge), energy management-capable

COMMUNICATION

Mobile Network	2G (GSM, GPRS, EDGE), 3G (UMTS) & 4G (LTE)
Encryption	TLS
Protocol	OCPP 1.5 / 1.6 (with binary option, roaming capable)
Functionality	Authorization, remote-start, configuration, maintenance, monitoring, operating

USER INTERFACE

Status Display	LED array (green, yellow, blue), LCD Display optional
Authorization	RFID (Mifare Classic, Desfire EV 2 and other 13.56 MHz RFID standards)
Access control	via App (iPhone, Android) or text message depending on backend

METERING

Integrated meter	eHZ-EDL 21 / 40, other smart meters are optional
Meter display	Visible from the outside
Remote Meter access	Remote meter reading via SML, S0 and Modbus, meter status visible in backend

SAFETY

RCD	Type A, Controller (CC612) integrated DC 6mA sensing system for Type B RCD
Compliance fuse	Depending on connection 10-32 A, single or three-phase
Housing Lock	Safety screws or double cylinder lock

MOUNTING

Housing	Stainless steel / Aluminium powdered, various colors
Dimensions (L x W x H)	182 x 220 x 1052 mm
Mounting	Lamp post, wall and pole for standalone solution
Power inlet	Attached cable: from H07RN-F 3 x 2,5 mm^2 to H07RN-F5G6, depending on power rating

Inputs / outputs and operation

USB1	USB devices (Ethernet, WLAN, ...)
SIM card	micro SIM

FEATURES (OPTIONAL)

Communication	Master for Master/Slave communication with up to 250 Slaves (USB, Ethernet, WLAN, RS485)
Load management	Customer specific & dynamic distribution of power resources
Energy management	Yes
Automatic release	Automatic charge plug release in the case of a power blackout
Grid connection	Directly connectable to the grid
Configuration & Firmware	via USB or remote via backend

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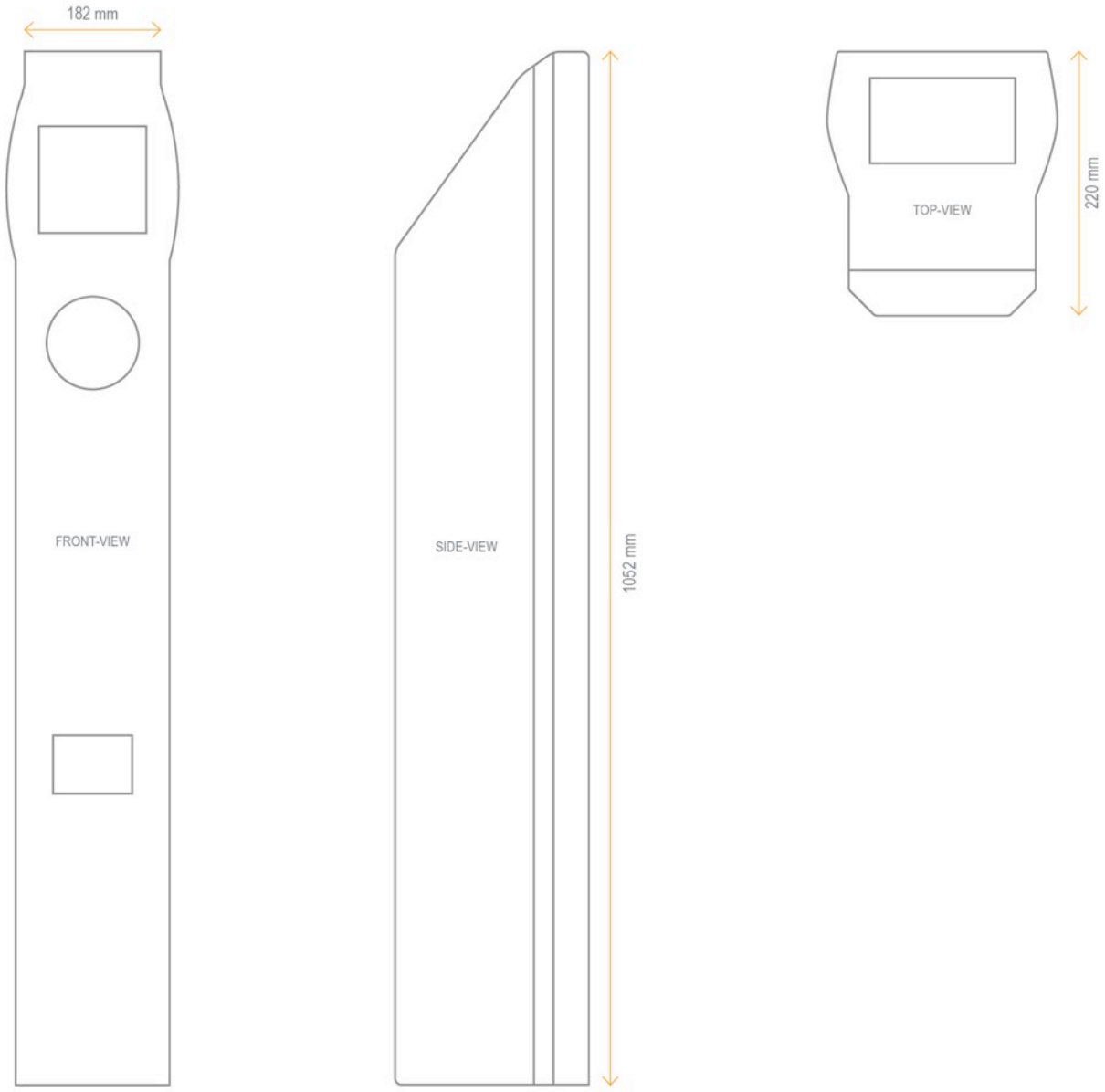
PRODUCT DIMENSIONS



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