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EVB

EVB2M AC





TYPE

Electric Vehicle Charging Stations EVB

MODELS / DESIGNATIONS

EVB 2M / DO, DS, DM

APPLICATION

Outdoor above-ground car parks; commercial buildings, commercial buildings, multi-family buildings, other publicly available buildings.

DESCRIPTION

Two-station station (2 charging points), for simultaneous charging, free-standing, mounted on a slab or concrete foundation.

HOUSING DESIGN

- ▶ steel, aluminum in protection class I or II (any color)
- ▶ In the front and rear part, a hardened, thick glass is permanently embedded
- ▶ 5-6 mm, printed or covered with foil (any graphics).
- ▶ The housing is placed on an aluminum plinth.

ELECTRICAL SUPPLY

- ▶ bottom;
- ▶ Connection terminals of the station from 10 to 240 mm².
- ▶ 3,7 kW; 7,4 kW; 11 kW; 18 kW; 22 kW with AC current

CHARGING POINT CONNECTORS

- ▶ Maximum 2 charging point:
- ▶ AC type-2 socket with flap;
- ▶ plug type-2;
- ▶ automatic locking of the plug in the socket**
- ▶ Charging cable length up to 4.8 m:
- ▶ spiral or straight cable;

AVAILABLE ACCESSORIES

- ▶ 2 x RCD type B residual current protection;
- ▶ 2 x MCB type B overcurrent protection;
- ▶ 2 x 4P contactor;
- ▶ 2 x EVSE charging process controller;
- ▶ 2 x MID ModBUS energy meter;
- ▶ 2 x RFID card reader;
- ▶ thermostat with 15W heater;

ADDITIONAL ACCESSORIES

- ▶ concrete slab,
- ▶ concrete foundation,
- ▶ free-standing protective barrier,
- ▶ parking separator 1.6 m,
- ▶ OSD measurement system,
- ▶ surge arrester type2,
- ▶ 10 inch HD touchscreen,
- ▶ RFID card reader + 5 cards,
- ▶ RFID card reader for operator cards**,

CHARGING SIGNALLING

- ▶ active LEDs (RGB) showing individual charging states
- ▶ 10" HD HDMI TFT screen showing the charging process

ACCESS

- ▶ plug&charge;
- ▶ RFID cards;
- ▶ Operator RFID cards**;
- ▶ mobile application / operator**

COMMUNICATION

- ▶ LAN/GPRS/3G/4G modem;
- ▶ OCPP 1.6 J-SOON protocol (modem, central communication controller)
- ▶ operator's SIM card
- ▶ mobile application, station management system - separate offer;
- ▶ The station has access by providing an API**.

MULTIMEDIA

- ▶ 10" HD touch screen

STATION PACKAGING

- ▶ cardboard unit packaging

*equipment selected depending on the version of the station.

** for public/managed stations

TECHNICAL PARAMETERS OF THE CHARGING POINTS

Socket type	Type-2, 230 V/16A
Plug type	Type-2,
Charging cable length [m]	4,8-5
Output voltage range [V]	230/400
Charging point rated current [A] AC	up to 32
Rated power of the charging point [kW] AC	up to 22
Rated power of the station [kW] AC	up to 44

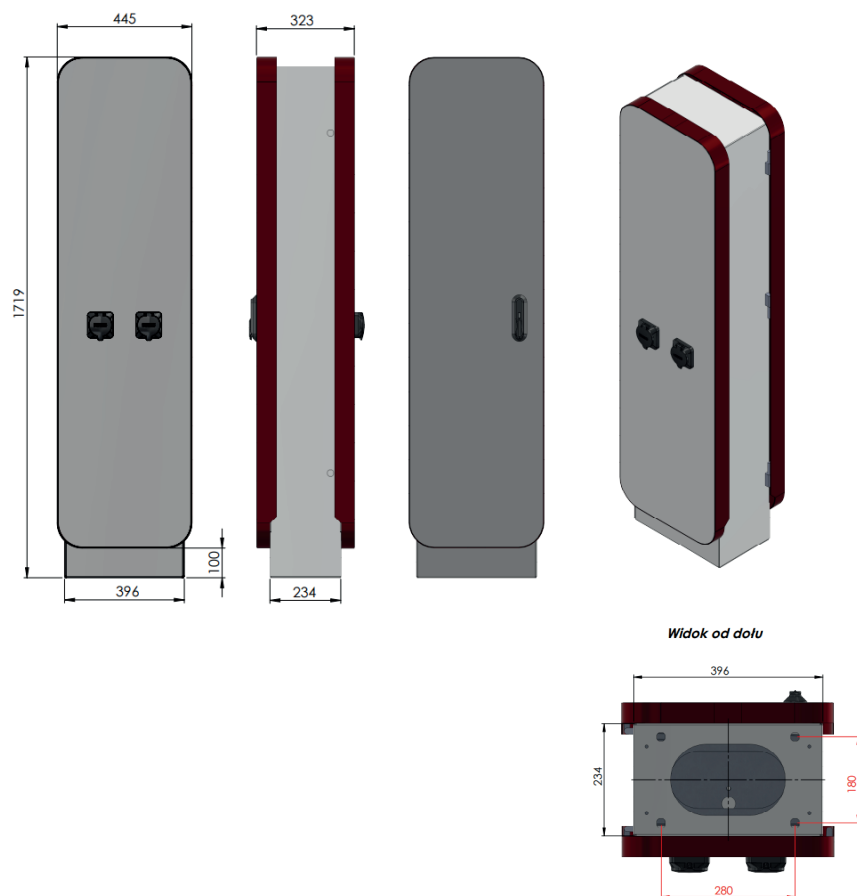
POWER SUPPLY SPECIFICATIONS

Cross section of supply cable [mm ²]	10-240 mm ²
Type of power supply	3xL+N+PE
Network layout	TN-S, TNC-S, TT
Rated switching voltage [V] (+/- 10%)	400
Rated insulation voltage [V]	500/690
Rated frequency [Hz]	50/60
Withstand surge voltage [kV].	8
Rated connection power [kW]	46
Rated connection current [A]	63

TECHNICAL SPECIFICATION OF THE HOUSING

Dimension (height/width/depth) (+/-5mm) [mm]	1690/445/330
Material	Steel, aluminium
Protection class	I/II
IP/IK protection degree	54/10
Weight [kg]	60
Working temperature [°C]	-30 to +55
Humidity [%]	95
Noise level [dB]	<10
Installation	4 x fi10

TECHNICAL DRAWING



STANDARDS

EN-61851-1_2011E	Electric vehicle conductive charging system – Part 1: General requirements
EN-61851-22:2002	Electric vehicle conductive charging system - Part 22: AC electric vehicle charging station
EN 61439-1:2011	Low-voltage substations and control gear - Part 1: General rules
EN 61439-3:2012	Low-voltage substations and control gear – Part 3: Distribution board stations intended for use by persons other than the public (DBO)
EN 61439-5:2015-02	Low-voltage substations and control gear – Part 5: Sets for power distribution in public networks
EN 50274:2004	Low-voltage substations and control stations – Protection against electric shock – Protection against unintentional direct contact with hazardous live parts
EN 62208:2006	Empty enclosures for low-voltage substations and control rooms – General requirements
E 05163	Shielded low-voltage substations and switchgear – Test guidelines for arc-discharge conditions resulting from internal short circuits
EN 60695-11-10:2014-02	Fire hazard testing - Part 11-10: Test flames - 50 W flame test methods for horizontal and vertical specimen alignment
EN ISO 14040:2009	Environmental management – Life cycle assessment – Principles and structure
EN ISO 14044:2009	Environmental management – Life cycle assessment – Requirements and guidelines
EN 62196-1:2015-05	Plugs, socket-outlets, vehicle couplers and vehicle inlets – Conductive charging of electric vehicles – Part 1: General requirements
EN 62196-2:2017-06	Plugs, socket-outlets, vehicle couplers and vehicle inlets – Conductive charging of electric vehicles – Part 2: Dimensional compatibility and interchangeability requirements for a.c. plug and socket contact products
EN 62196-3:2015-02	Plugs, socket-outlets, vehicle connectors and vehicle inlets – Conductive charging of electric vehicles – Part 3: Dimensional compatibility and interchangeability requirements for d.c. and a.c./d.c. vehicle connectors with sleeve-and-pin contacts
ISO/IEC 14443	Identification cards - Proximity chips - Proximity cards
ISO/IEC 15693	Identification cards - Proximity chips - Proximity cards
EN 61000-6	Electromagnetic compatibility (EMC) - Part 6-2: Generic standards - Immunity for industrial environments



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