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EV3 4M AC

4 x 22kW



TYPE
EVB Electric Car Charging Station.

MODELS / DESIGNATIONS
EVB 4M / DO, DS, DM

APPLICATION
Outdoor surface parking lots; commercial buildings, multi-family buildings, other general public.

DESCRIPTION
EVB 4M - four-station station (4 charging points), for simultaneous charging, free-standing mounted on a slab or concrete foundation.

HOUSING DESIGN

- ▶ Steel, aluminum in I or II protection class (any color).
- ▶ In the front and rear parts permanently embedded tempered glass, 5-6 mm thick, printed or covered with foil (any graphics).
- ▶ The housing sits on an aluminum plinth.

POWER SUPPLY

- ▶ Bottom entry;
- ▶ Station connection terminals from 10 to 240 mm².

CHARGING POINT POWER

Point 1	Point 2	Point 3	Point 4	Unit
3,7	3,7	3,7	3,7	kW
7,4	7,4	7,4	7,4	
11	11	11	11	
18	18	18	18	
22	22	22	22	

AC (Alternating Current) Charging.

CHARGING POINT CONNECTORS

- ▶ Maximum 1 charging point:
- ▶ AC type-2 socket with cover;
- ▶ type-2 or type-1 plug;
- ▶ automatic plug locking in the socket**

CHARGING CABLE LENGTH UP TO 4.8 M:

- ▶ coiled or straight cable;

EQUIPMENT

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

ADDITIONAL EQUIPMENT

- ▶ Concrete plate, code: FP10045011;
- ▶ Concrete foundation, code: FB1004502;
- ▶ Freestanding protective barrier, code: S000B020022;
- ▶ Parking separator 1.6 m, code: SP00B01003;
- ▶ OSD measurement system, code: UPOSD;
- ▶ Type 2 surge protector, code: AP OP TYP2;
- ▶ 10-inch HD touchscreen, code: ELCD10;
- ▶ RFID card reader + 5 cards, code: RFID19;
- ▶ RFID card reader for operator cards**, code: RFID 1015;

CHARGING INDICATION*

- ▶ Active LED (RGB) lights depicting various charging states;
- ▶ 10" HD HDMI TFT screen displaying the charging process;

CHARGING ACTIVATION

- ▶ Plug&charge;
- ▶ RFID cards;
- ▶ Operator RFID cards**;
- ▶ RFID Smart Control OS cards;
- ▶ Mobile/operator application**;

COMMUNICATION

- ▶ LAN/GPRS/3G/4G modem;
- ▶ OCPP 1.6 J-SON protocol (modem, central communication controller);
- ▶ Operator side SIM card;
- ▶ Mobile application, station management system - separate offer;
- ▶ Station access through API availability**.

MULTIMEDIA

- not available

PACKAGING

- Transport pallet

*equipment selection depends on the version of the station.

** for public stations/with management system

TECHNICAL PARAMETERS OF POWER SUPPLY

Cross-section of the supply cable [mm ²]	10-240 mm ²
Type of power supply	3xL+N+PE
Network system	TN-S, TNC-S, TT
Rated connection voltage [V] (+/- 10%)	400
Rated insulation voltage [V]	500/690
Rated frequency [Hz]	50/60
Withstand impulse voltage [kV]	8
Rated connection power [kW]	88
Rated connection current [A]	125
Surge protection	type2

TECHNICAL PARAMETERS OF CHARGING POINTS

Type of Socket	Type-2, 230 V/16A
Type of Plug	Type-2,
Charging Cable Length [m]	4,8-5
Voltage [V]	230/400
Rated Current of Charging Point [A] AC	up to 63
Rated Power of Charging Point [kW] AC	up to 22
Rated Power of Station [kW] AC	up to 88
Efficiency (%) of Connector	up to 96
Communication Protocol	OCCP 1.6J (2.0 klar)
Changing Station Parameters	Firmware upgrade
Communication	LTE, GSM, ETHERNET, WIFI
Interface	Ekran TFT 10 inch

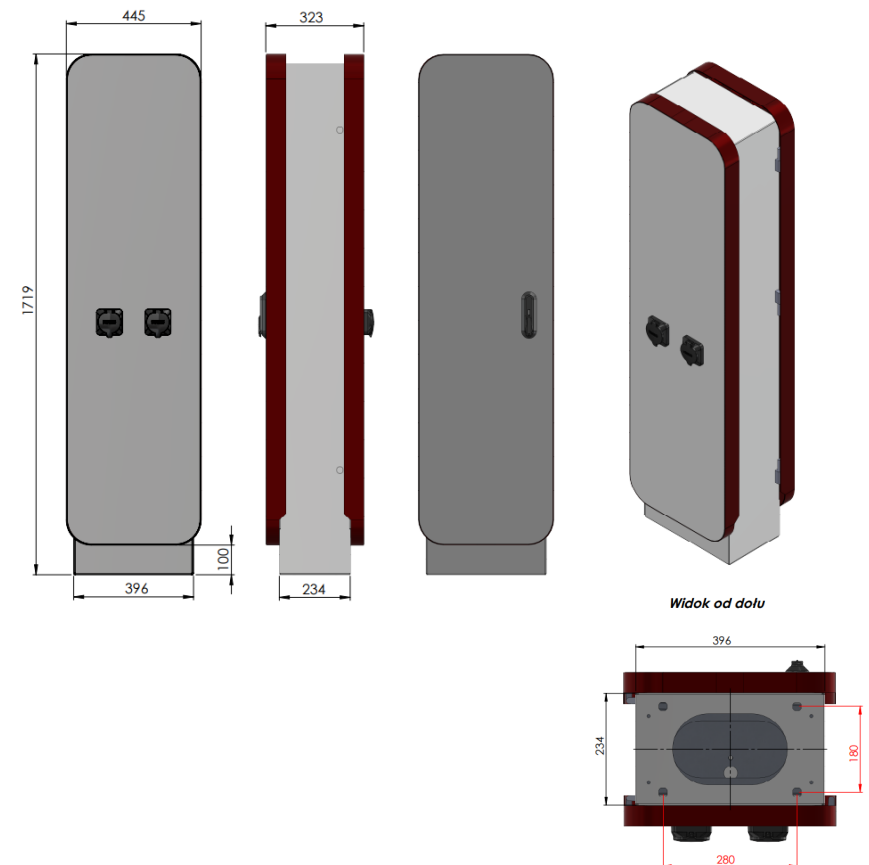
STANDARDS

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

TECHNICAL PARAMETERS OF THE HOUSING

Dimensions (height/width/depth) [mm]	1690/445/330
Material	Steel, aluminium
Protection Class	I/II
Protection Rating IP/IK	54/10
Weight [kg]	85
Operating Temperature [°C]	-30 to +55
Humidity [%]	95
Noise Level [dB]	<10
Assembly	4 x fi10
Assembly	4 x M12

TECHNICAL DRAWING





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