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EVB 1M AC



TYPE
Electric Vehicle Charging Station EVB 1M AC

MODELS / DESIGNATIONS
EVB 1M AC / AO, AS, AM

APPLICATION
Indoor and outdoor parking; commercial centers, commercial buildings, multi-family buildings, private garages, residential parking spaces, industrial facilities, urban spaces.

DESCRIPTION
EVB 1M AC is a compact indoor/outdoor single-station equipped with either a socket or a plug with a straight or coiled cable up to 4.8 m in length.

HOUSING CONSTRUCTION

- ▶ steel (standard) in I (standard) or II class of protection;
- ▶ aluminum in I (standard) or II class of protection;
- ▶ any color of the enclosure;

POWER SUPPLY

- ▶ bottom entry;
- ▶ Connection terminals of the station up to 10 mm².

CHARGING POINT POWER

- ▶ 3.7 kW; 7.4 kW; 11 kW; 18 kW; 22 kW.
- ▶ 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;

AVAILABLE EQUIPMENT

- ▶ type 2 socket with cover;
- ▶ type 2 or type 1 plug;
- ▶ straight or coiled cable;
- ▶ differential current protection RCD type A or B;
- ▶ overcurrent protection type B;
- ▶ 4P contactor;
- ▶ EVSE charging process controller
- ▶ energy meter;
- ▶ MID ModBUS energy meter;
- ▶ type 2 surge protector;



ADDITIONAL EQUIPMENT

- ▶ Concrete base plate, code: FP1004501;
- ▶ Wall-mounted protective barrier, code: S000B02002;
- ▶ Parking separator 1.6 m, code: SPO0B01003;
- ▶ Type 2 surge protector, code: AP OP TYP2;
- ▶ RFID card reader + 5 cards, code: RFID19;
- ▶ RFID card reader for operator cards**, code: RFID 1015;
- ▶ Supply cable 2m with 16/32A 3P+N+PE plug, code: PZ 1632;
- ▶ Thermostat with 15W heater, code: TG 15W;
- ▶ Type 1 plug instead of type 2, code: WTyp1;
- ▶ Additional 12-month warranty.

CHARGING INDICATION*

- ▶ active LED (RGB) lights showing various charging states

CHARGING ACTIVATION

- ▶ plug & charge;
- ▶ key;
- ▶ RFID cards/PIN code;
- ▶ remote control;
- ▶ mobile/operator application**

COMMUNICATION

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

*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]	up to 10 mm ²
Type of power supply	1xL+N+PE / 3xL+N+PE
Network system	TN-S, TNC-S, TT
Rated connection voltage [V] (+/- 10%)	230/400
Rated insulation voltage [V]	500/690
Rated frequency [Hz]	50/60
Withstand impulse voltage [kV]	8
Rated connection power [kW]	22
Rated connection current [A]	32
Surge protection	type 2

TECHNICAL PARAMETERS OF CHARGING POINTS

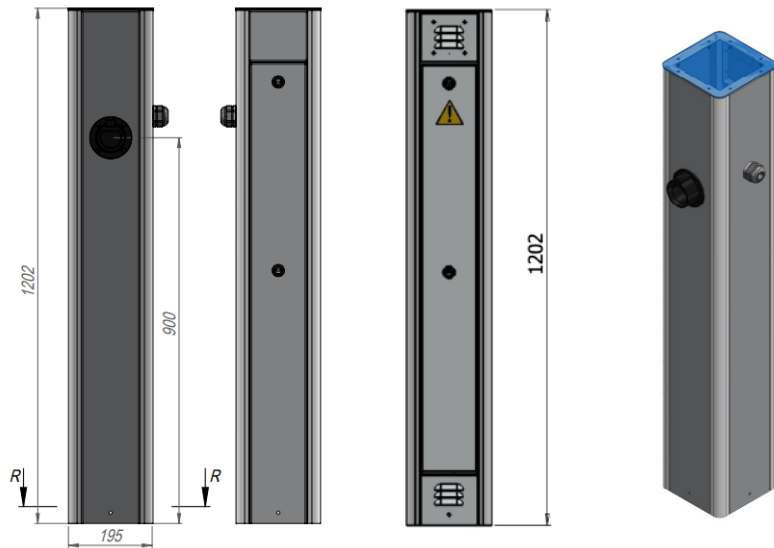
Type of socket	Type-2
Plug type	Type-2, type-1
Charging cable length [m].	4,8
Voltage [V].	230/400
Rated charging point current [A] AC	up to 32
Rated power of the charging point [kW] AC	up to 22
Rated power of the station [kW] AC	up to 22

TECHNICAL PARAMETERS OF THE HOUSING

Dimension (H/W/D) (+/-5mm) [mm].	1202/195/195
Material	Steel, aluminum
Protection class	I/II
IP/IK degree of protection	54/10
Weight [kg].	3-16
Operating temperature [st.C].	-30 to +55
Moisture content [%]	95
Noise level [dB].	<10
Assembly	Wall-mounted, on a post

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





CONTACT

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