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EVB
WALLBOX
2M AC

TYPE
EVB Wallbox AC Electric Vehicle Charging Stations.

MODELS / DESIGNATIONS
EVB Wallbox 2M AC / A0, AS, AM

APPLICATION
Internal and external parking lots, commercial buildings, apartment buildings, private garages, home parking lots, industrial facilities.

DESCRIPTION
EVB Wallbox 2M AC is a small-sized, wall-mounted or floor-standing indoor/outdoor station equipped with a socket or plug with a straight or spiral cable up to 4.8 m long.

HOUSING DESIGN
- steel (standard) in protection class I (standard) or II;
- aluminum in I (standard) or II protection class;
- any color on the case;
- the front of the station made of high-strength synthetic plate with a thickness of 5-6 mm, covered with foil or screen printing (any graphic);
- universal distance between holes on the back enables quick and easy mounting on a wall or post.

POWER
- lower; upper; rear;
- station connection terminals up to 10 mm2.

AVAILABLE CHARGING CAPACITY
- 3,7 kW; 7,4 kW; 11 kW; 18 kW; 22 kW.
- AC-laddning.

CHARGING POINT CONNECTIONS
- max. 2 charging points;
- AC socket type-2 with flip;
- typ-2 eller typ-1 plug;
- automatic locking of the plug in the socket**
- charging cable length up to 4.8 m: spiral or straight cable.

RELEVANT FEATURES
- type 2 socket with clamshell;
- type 2 or type 1 plug;
- straight or spiral cable;
- RCD type A or B residual current protection;
- type B overcurrent protection;
- 4P-contactor;
- EVSE charging process controller;
- energy meter;
- ModBUS MID energy meter;
- overvoltage protection of type 2;
- communication modem;
- 7 inch screen.

ADDITIONAL EQUIPMENT
- free-standing post, code: FA 10045503;
- concrete slab, code: FP1004501;
- wall barrier, code: SO00BO2002;
- parking separator 1,6 m, code: SP00BO1003;
- type 2 surge arrester, code: AP OP TYPE2;
- RFID card reader+5 cards, code: RFID19;
- RFID card reader for operator card**, code: RFID 1015;
- power cord 2m with connector 16/32A 3P + N + PE, code: PZ 1632;
- thermostat with heater 15W, code: TG 15W;
- wall bracket for cable wrapping, code: UPK 15;
- plug-in type1 instead of type2, code: WTyp1;
- additional warranty 12 months

CHARGING SIGNALLING *
- LEDs (RGB) showing the various stages of charging;
- 7” HB HDMI TFT-skärm som visar laddningsprocessen.

STARTING CHARGING
- plug and charge;
- key;
- RFID card/PIN code;
- remote control;
- mobile/operator app**

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 by providing API**.

THE STATION'S PACKAGING
- Unit box.

* Equipment selected depending on station version.
** For public stations/with management system.

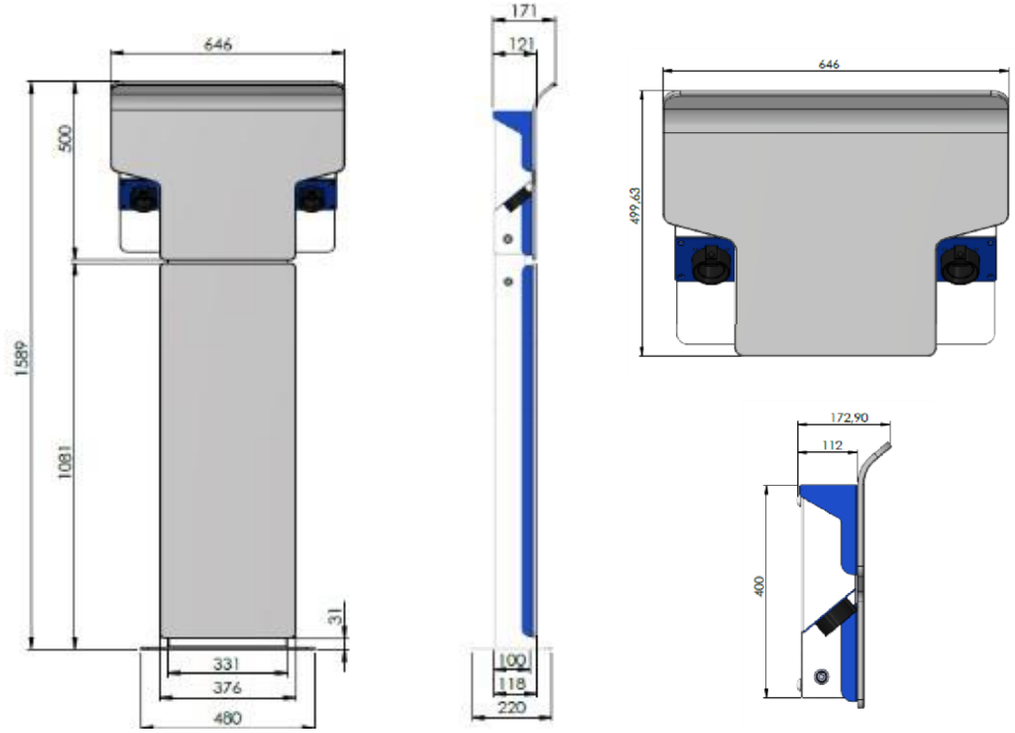
TECHNICAL PARAMETERS OF THE CHARGING POINTS

Type of socket	**Type-2**
Type of plug	**Type-2**
Length of the charging cable [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**
Station rated current [A] AC	**up to 63**
Rated power of the station [kW] AC	**up to 44**

POWER SUPPLY SPECIFICATIONS

Cross section of supply cable [mm2]	**up to 35**
Type of power supply	**1xL+N+PE / 3xL+N+PE**
Network layout	**TN-S, TNC-S, TT**
Rated switching voltage [V] (+/- 10%)	**230/400**
Rated insulation voltage [V]	**500/690**
Rated frequency [Hz]	**50/60**
Withstand surge voltage [kV].	**8**
Rated connection power [kW]	**44**
Rated connection current [A]	**63**
Overvoltage protection	**type 2**

TECHNICAL DRAWING



STANDARDS

PN-SV-61851-1_2011E	**Electric vehicle conductive charging system -- Part 1: General requirements**
PN-SV-61851-22:2002	**Electric vehicle conductive charging system - Part 22: AC electric vehicle charging station**
PN-EN 61439-1:2011	**Low-voltage substations and control gear - Part 1: General rules**
PN-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)**
PN-EN 61439-5:2015-02	**Low-voltage substations and control gear -- Part 5: Sets for power distribution in public networks**
PN-EN 50274:2004	**Low-voltage substations and control stations -- Protection against electric shock -- Protection against unintentional direct contact with hazardous live parts**
PN-EN 62208:2006	**Empty enclosures for low-voltage substations and control rooms -- General requirements**
PN-E 05163	**Shielded low-voltage substations and switchgear -- Test guidelines for arc-discharge conditions resulting from internal short circuits**
PN-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**
PN-EN ISO 14044:2009	**Environmental management -- Life cycle assessment -- Requirements and guidelines**
PN-EN 62196-1:2015-05	**Plugs, socket-outlets, vehicle couplers and vehicle inlets -- Conductive charging of electric vehicles -- Part 1: General requirements**
PN-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**
PN-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 con- nectors 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 SPECIFICATIONS OF THE HOUSING

Dimension (H/W/D) [mm]	**Q3: 525/505/180**
Material	**Steel, aluminum**
Protection class	**I**
IP/IK protection class	**54/10**
Weight [kg]	**6-21**
Operating temperature [st. C]	**-30 up to +55**
Moisture content [%]	**95**
Noise Level [dB]	**<10**
Installation	**Wall mounted; on pole**

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