



# EVB 2M AC





## TYPE

EV3 charging station for electric vehicles.

## MODELS / DESIGNATIONS

EV3 2M / D0, DS, DM

## APPLICATION

Outdoor surface parking spaces; retail, commerce, city centers, road lanes, multi-family buildings, other publicly available buildings.

## DESCRIPTION

2-station (2 charging points), freestanding, mounted on a slab or two concrete foundations.

## HOUSING DESIGN

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

## POWER SUPPLY

- ▶ bottom;
- ▶ station connection terminals from 10 to 240 mm<sup>2</sup>.

## AVAILABLE CHARGING CAPACITY

- ▶ 3,7 kW; 7,4 kW; 11 kW; 18 kW; 22 kW.
- ▶ AC charging.

## CHARGING POINT CONNECTORS

- ▶ maximum 2 charging point;
- ▶ type-2 AC socket with a flap;
- ▶ plug type-2;
- ▶ automatic locking of the plug in the socket\*\*;
- ▶ charging cable length up to 4,8 m;
- ▶ spiral or straight cable;

## RELEVANT FEATURES

- ▶ 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 EQUIPMENT

- ▶ concrete slab;
- ▶ concrete foundation;
- ▶ free-standing protective barrier;
- ▶ parking separator 1.6 m;
- ▶ OSD measuring system;
- ▶ surge arrester type2;
- ▶ 10 inch HD touch screen;
- ▶ RFID card reader + 5 cards;
- ▶ RFID card reader for operator cards\*\*.

## CHARGING SIGNALLING

- ▶ LEDs (RGB) showing the various stages of charging;
- ▶ HD display - 10 inches - charging process parameters

## CHARGING

- ▶ plug&charge;
- ▶ RFID cards;
- ▶ operator's RFID cards\*\*;
- ▶ 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 by providing API\*\*.

## MULTIMEDIA

- ▶ 10 inch HD touch screen.

## STATION PACKAGING

- ▶ unit box.

\*Equipment selected depending on the version of the station.

\*\* For public/managed stations.

## TECHNICAL PARAMETERS OF THE CHARGING POINTS

Type of socket	Type-2, 230 V/16A
Type of plug	Type-2,
Length of the charging cable [m]	4,8-5
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 44

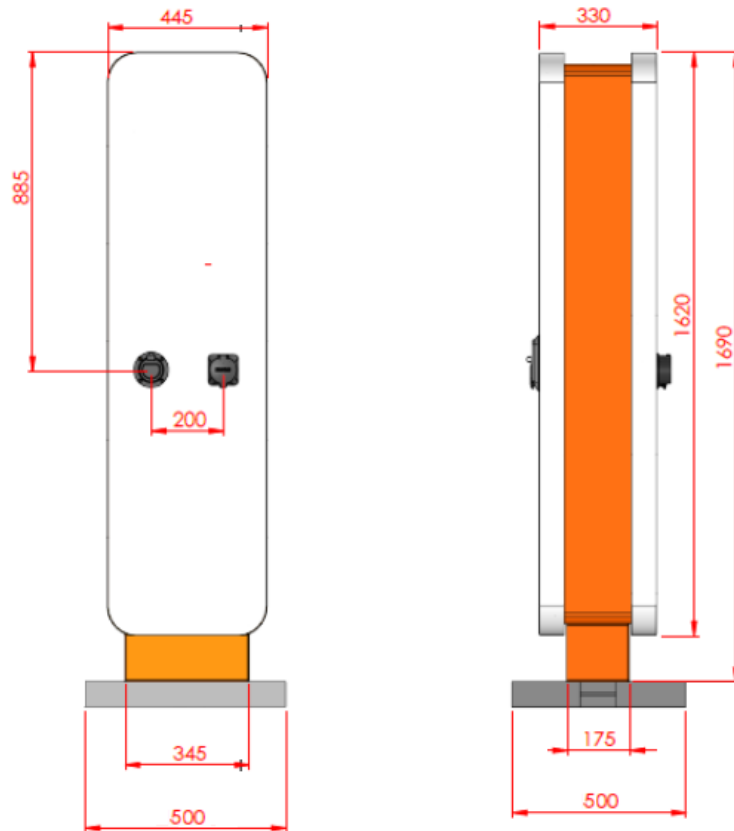
## POWER SUPPLY SPECIFICATIONS

Cross section of the supply cable [mm <sup>2</sup> ]	10-240
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
Nominal frequency [Hz]	50/60
Withstands surge voltage [kV]	8
Rated connection power [kW]	46
Rated connection current [A]	63

## TECHNICAL SPECIFICATIONS OF THE HOUSING

Dimensions (H/W/D) [mm]	<b>1690/445/330</b>
Material	<b>Steel, aluminum</b>
Protection class	<b>I/II</b>
IP/IK protection class	<b>54/10</b>
Weight [kg]	<b>85</b>
Operating temperature [st. C]	<b>-30 up to +55</b>
Moisture content [%]	<b>95</b>
Noise Level [dB]	<b>&lt;10</b>
Installation	<b>4 x fi10</b>

## TECHNICAL DRAWING – DIMENSIONS



## STANDARDS

PN-EN-61851-1_2011E	Electric vehicle conductive charging system -- Part 1: General requirements
PN-EN-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
PN-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 connectors with sleeve-and-pin contacts
ISO/IEC 14443	Identification cards - Proximity chips - Proximity cards
ISO/IEC 15693	Identification cards - Proximity chips - Proximity cards
PN-EN 61000-6	Electromagnetic compatibility (EMC) - Part 6-2: Generic standards - Immunity for industrial environments



## CONTACT US

TELEPHONE: **+48 696 673 646**

E-MAIL: [OFFICE@EVBGROUP.PL](mailto:OFFICE@EVBGROUP.PL)

[WWW.EVBGROUP.PL](http://WWW.EVBGROUP.PL)

## MAIN DISTRIBUTOR

**LT EL & TEKNIK AB**

[INFO@LTELTEKNIK.COM](mailto:INFO@LTELTEKNIK.COM)

[LUKAS@LTELTEKNIK.COM](mailto:LUKAS@LTELTEKNIK.COM)

MOBILE: **+46 (0) 705291555**

**+46 (0) 706073555**

