



DOT
FAST
CHARGER

20 - 60kW





TYPE

EVB Wallbox DC Electric Vehicle Charging Stations

MODELS / DESIGNATIONS

WB20-C2, WB20-CH, WB30-C2, WB30-CH, WB30-C2-CH, WB50-C2, WB50-CH, WB50-C2-CH, WB50-C2-C2, WB50-C2-CH-R, WB50-C2-C2-R, WB60-C2, WB60-C2-CH, WB60-C2-CH-R, WB60-C2-C2-R

ADDITIONAL EQUIPMENT

ACTYP2 – 22 kW plug type2, straight cable 4.8 m
 TKP – payment card terminal
 CCSCHA7M – CSS-2 or CHAdeMO cable extension up to 7 metres
 TYP27M – cable extension to type2 up to 7 metres
 UP2040 – increase in station capacity from 20 to 40 kW
 FA10045506 – free-standing construction with a set of screws non-illuminated
 LED2MFRON – LED windscreen illumination - logo/inscription
 FB12080108 – concrete slab 1200x800x10
 FB405010015 – concrete slab 400x500x1000
 SLPI8070000 – safety barrier 800x70 wall mounted
 SLPI1207000- safety barrier 1200x70 floor mounting
 SEKR901510 – parking separator black with reflectors 900x150x100
 SEDL161412 – parking separator black with reflectors 1670x145x120
 GD12M – additional guarantee for a further 12 months beyond 24 months

APPLICATION

Small-sized wall-mounted or floor-standing DC and optional AC fast charging station. Suitable for private and public garages and open car parks, designed for charging cars with large battery capacities in home, workshop and public environments.

DESCRIPTION

HOUSING DESIGN:

- ▶ Powder-coated aluminium housing;
 - ▶ front made of toughened glass;
 - ▶ suspended or free-standing on a structure;
- Free branding and colouring based on individual design.

CONNECTORS AVAILABLE:

- ▶ CCS plug 2 (C2), with cable (Combo-2) Combo T2 with straight cable up to 4.8m;
- ▶ CHAdeMO (CH)plug with straight cable up to 4.8 m;
- ▶ Type2 plug (ACTYP2) with straight cable up to 4.8m.

AVAILABLE POINT CHARGING CAPACITIES:

- ▶ DC: 20/30/50/60 kW,
- ▶ AC: 22 kW.

Two vehicles simultaneously with dynamic power sharing.

RELEVANT FEATURES:

- ▶ main switch - fuse disconnecter;
- ▶ overvoltage protection;
- ▶ overcurrent protection;
- ▶ residual current protection;
- ▶ emergency stop switch;
- ▶ checking the state of insulation;
- ▶ higher harmonic filter;
- ▶ energy consumption meter at each workstation;
- ▶ heater;
- ▶ forced ventilation system.

CHARGING SIGNALLING:

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

INTERFACE:

- ▶ buttons;
- ▶ LCD graphic display;
- ▶ RFID card reader in 13.56 MHz standard;
- ▶ payment terminal.

COMMUNICATION PROTOCOL:COMMUNICATION:

- ▶ OCPP 1.6J, OCPP 2.0. ▶ Ethernet;
- ▶ WiFi;
- ▶ GMS, 3G, LTE.

POWER SUPPLY SPECIFICATIONS

| | |
|---|--------------------|
| Cross section of supply cable | 50 mm ² |
| [mm ²] Type of power supply | 3xL+N+PE |
| Network layout | TN-S, TNC-S, |
| Rated switching voltage [V] (+/- | TT 400 |
| 10%) Rated insulation voltage [V] | 500/690 |
| Rated frequency [Hz] | 50/60 |
| Withstand surge voltage [kV]. | 8 |
| Rated connection power [kW] | 22 - 65 |
| Rated connection current [A] | 32-125 |
| Overvoltage protection | Typ 2 |

TECHNICAL PARAMETERS OF THE CHARGING POINTS

| | |
|------------------------------|---|
| Plug type | CCS-2, CHAdeMO, typ e-2 |
| Maximum charging current [A] | 32 - 100, 32-63 |
| Output voltage range | 150-1000 VDC, 230/400 VAC |
| Charging standard | Läge 4, ChAdeMO2, typ 2, IEC 61851, IEC61851-23, IEC 61851-24, ISO 15118, DIN 70121, IEC 61851-1, IEC 62196-2 |
| Communication standard | ISO 15118, DIN 70121, CHAdeMO 1 1 |
| Charging cable length [m] | Up to 4.8 |
| Power factor | 0.98 |
| Coupling efficiency (%) | up to 96 |
| Communication protocol | OCPP 1.6J (2.0 ready) |
| Changing station parameters | Firmware upgrade |
| Communication | LTE, GSM, ETHERNET, WIFI |
| Interface | 10-inch TFT screen |

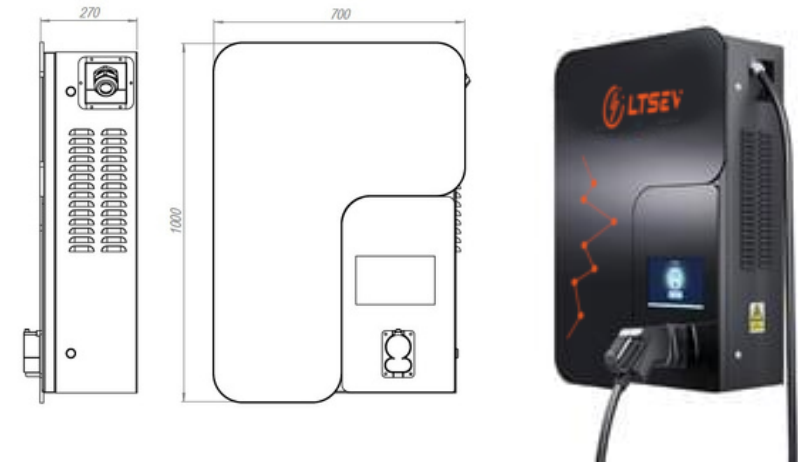
TECHNICAL SPECIFICATIONS OF THE HOUSING

| | |
|------------------------------|---|
| Dimension (H/W/D) [mm]. | WB 1-stand: 1000/700/301, WB 2-stand: 1250/700/301 |
| Dimension (H/W/D) [mm]. | Construction: 950/606/301 |
| Material | Aluminium, toughened glass |
| Colours | Any RAL |
| Protection class | I/II |
| Protection class IP/IK | 54/10 |
| Weight [kg] | 60-120 |
| Operating temperature [st.C] | -30 to +55 |
| Moisture content | [%]95 |
| Noise level [dB] | <60 |
| Installation | 4xM12 |

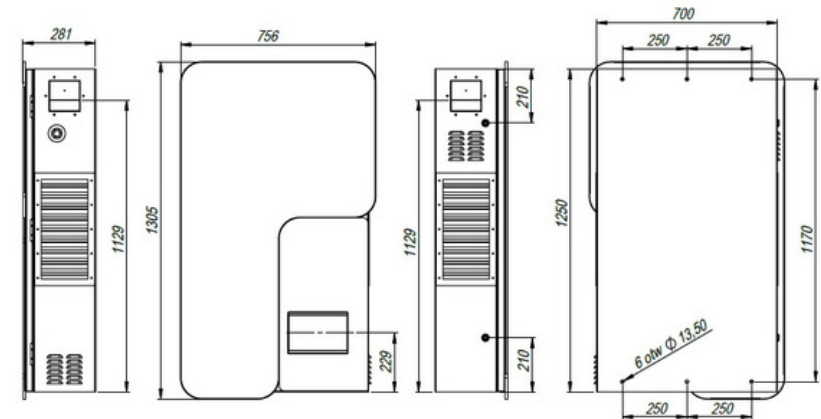
STANDARDS

| | |
|------------------------|--|
| 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 |

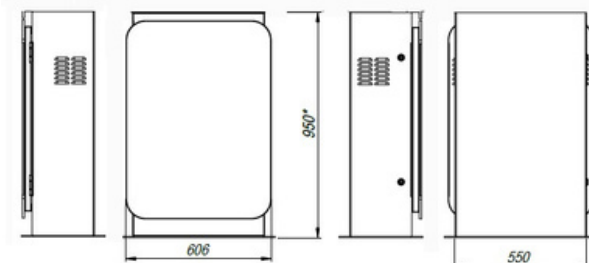
WB 1-stand: 1000/700/301



WB 2-stand: 1250/700/301



Construction: 950/606/301





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