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EVB POWER

MobileBox DC

40 - 80kW



TYPE
EVB MobileBox DC Electric Car Charging Station

MODEL / DESIGNATIONS

MB40-C2	Power 40kW, 1 x CCS 2 plug, straight cable from 3.5m, LCD 10", RCD, counter
MB60-C2	Power 60kW, 1 x CCS 2 plug, straight cable from 3.5m, LCD 10", RCD, counter
MB80-C2	Power 80kW, 1 x CCS 2 plug, straight cable from 3.5m, LCD 10", RCD, counter

ACCESSORIES

ACTYP2 - 22kW type2 plug, 3.5 straight cable
CCSHA7M - extension of CCS-2 or CHAdeMO cable up to 7 meters
GD12M - additional warranty for another 12 months over 24 months

APPLICATION

Mobile DC and optional AC fast charging station. Designed for private garages, service shops and workshops. Designed for charging cars and trucks with high capacity Battery.

DESCRIPTION

HOUSING DESIGN:

- ▶ Powder-coated aluminium housing;
- ▶ mobile
- ▶ Free branding and color scheme 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 from 3.5 m;
- ▶ plug type2 (ACTYP2) with straight cable up to 4.8m

AVAILABLE POINT CHARGING CAPACITIES:

- ▶ DC: 40/60/80 kW,
- ▶ AC: do 22 kW.

Two vehicles simultaneously with dynamic power sharing

RELEVANT FEATURES:

- ▶ main switch - fuse switch
- ▶ surge protection
- ▶ overcurrent protection
- ▶ residual-current protection
- ▶ emergency shutdown switch
- ▶ checking the condition of insulation
- ▶ higher harmonic filter
- ▶ a meter for the energy consumed at each station
- ▶ thermostat + 15W heater - adaptive kit for external conditions
- ▶ 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:

- ▶ OCPP 1.6J, OCPP 2.0.

COMMUNICATION:

- ▶ Ethernet;
- ▶ WiFi;
- ▶ GMS, 3G, LTE.

TECHNICAL PARAMETERS OF POWER SUPPLY

Cross section of supply cable [mm ²]	50
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
Rated frequency [Hz]	50/60
Withstand surge voltage [kV].	8
Rated connection power [kW]	22 - 65
Rated connection current [A]	32 - 125
Overvoltage protection	Type 2

TECHNICAL PARAMETERS OF THE CHARGING POINTS

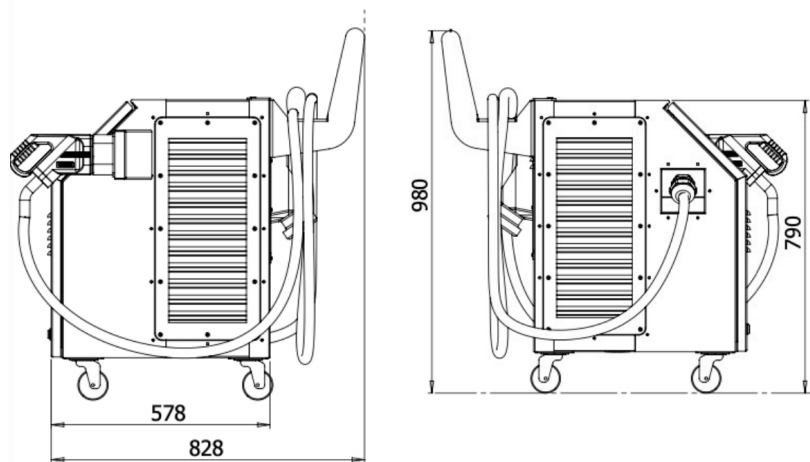
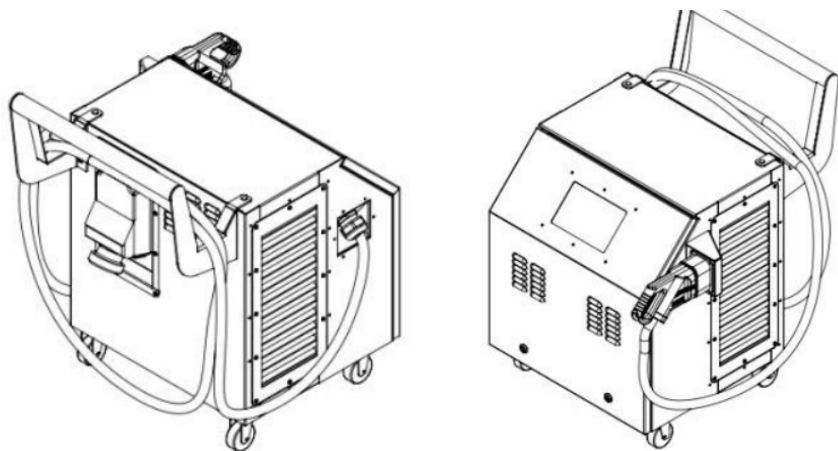
Plug type	CCS-2, CHAdeMO, type-2
Maximum charging current [A]	32 - 100, 32-63
Output voltage range	150-1000 VDC, 230/400 VAC
Charging standard	Mode 4, ChAdeMO2, Type 2, IEC 61851, IEC61851-23, IEC 61851-24, ISO 15118, DIN 70121, IEC 61851-1, IEC 62196-2
Communication standard	ISO 15118, DIN 70121, CHAdeMO 1.1, V2X*
Charging cable length [m]	3.5 - 7m
Power factor	0,98
Coupling efficiency (%)	up to 96
Communication protocol	OCPP 1.6J (2.0 ready)
Charging station parameters	Firmware upgrade
Communication	LTE, GSM, ETHERNET, WIFI
Interface	10-inch TFT screen
Payment	Payment card terminal

*Additional option (depending on the car model and the management platform)



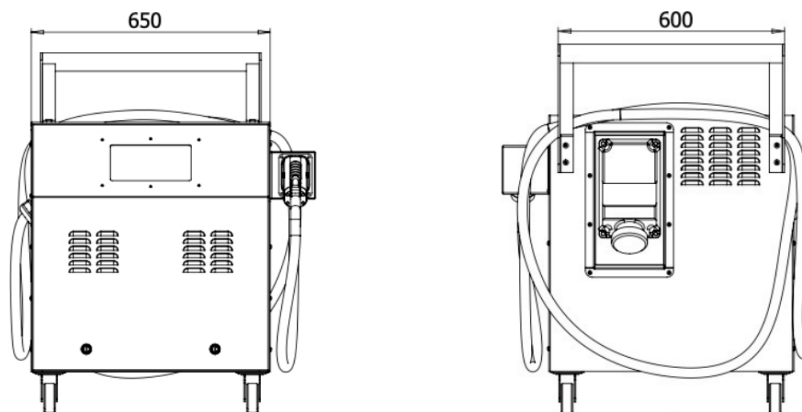
TECHNICAL SPECIFICATIONS OF THE HOUSING

Dimension (H/W/D) [mm].	980/650/828
Package dimension [cm]	130/80/120
Material	Aluminium
Colours	Any RAL
Protection class	I
Protection class IP/IK	54/10
Weight [kg]	20-35
Operating temperature [st.C]	-30 to +55
Moisture content [%]	95
Noise level [dB]	<60



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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