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EVB 2M DC

40 - 80kW

TYPE
EVB 2M DC Electric Car Charging Stations.

MODELS / DESIGNATIONS
P2M40-C2 non-expandable P2M40-C2-U
expandable to 80 kW P2M40-C2-C2 nonexpandable
P2M40-C2-C2-U expandability up to 80 kW
P2M60-C2 without expandability
P2M60-C2-C2 not expandable
P2M60-C2-C2-U expandability up to 80 kW
P2M80-C2 without expandability
P2M80-C2-C2 not expandable

APPLICATION
Small-size standing DC fast charging station. Designed for private and public garages and open parking lots, it is designed to charge cars with high battery capacity in home, workshop and public conditions.

ADDITIONAL EQUIPMENT
- ACTYP2 - Type2 plug with a power of 22 kw, straight cable 3.5m
- TKP - payment card terminal
- CCSCHA7M - extension cable for CSS-2 or chademo up to 7 meters
- TYP27M - extension cable for Type2 up to 7 meters
- ZWM4080 - Increase in power from 40 to 80 kw
- ZWM6080 - Increase in power from 60 to 80 kw
- LED2MFRON - LED lighting for the front window - logo/text
- FB405010015 - concrete base plate 400x500x1000
- SLPI8070000 - protective barrier 800x70 wall mount
- SLPI1207000 - protective barrier 1200x70 ground mount
- SEKR901510 - black parking separator with reflectors 900x150x100
- SEDL161412 - black parking separator with reflectors 1670x145x120
- GD12M - additional warranty for another 12 months beyond 24 months

DESCRIPTION
HOUSING DESIGN:
- Powder-coated aluminum housing;
- Front made of tempered glass;
- freestanding;
- Free branding and color scheme based on individual design.

AVAILABLE CONNECTORS:
- CCS 2 (C2) plug, with cable (Combo-2) Combo T2 with straight cable up to 4.8m;
- CHAdeMO (CH)plug with straight wire up to 3.5 m;
- Type2 plug (ACTYP2) with straight cable up to 4.8m.

AVAILABLE DC POINT CHARGING CAPACITIES:
- DC: 40/60/80 kW,
- AC: up to 22 kW.
- Two vehicles simultaneously with dynamic power sharing.

ESSENTIAL ITEMS OF EQUIPMENT:
- main switch - fuse disconnector;
- 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 + 15 W heater - adaptation kit for outdoor conditions

COMMUNICATION PROTOCOL:
- OCPP 1.6J, OCPP 2.0.
- forced ventilation system.

COMMUNICATIONS:
- Ethernet;
- WiFi;
- GMS, 3G, LTE.

CHARGING SIGNALING:
- 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.

TECHNICAL PARAMETERS OF POWER SUPPLY

Cross section of power supply cable [mm2]	50 mm2
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	type2

TECHNICAL PARAMETERS OF THE HOUSING

Dimension (H/W/D) [mm].	1718/443/473
Package dimension [cm]	190/80/60
Material	Aluminum, tempered glass
Colors	Any RAL
Protection class	I/II
IP/IK degree of protection	54/10
Weight [kg].	60-120
Operating temperature [st.C].	-30 to +55
Moisture content [%]	95
Noise level [dB].	< 60
Assembly	4xM12

STANDARDS

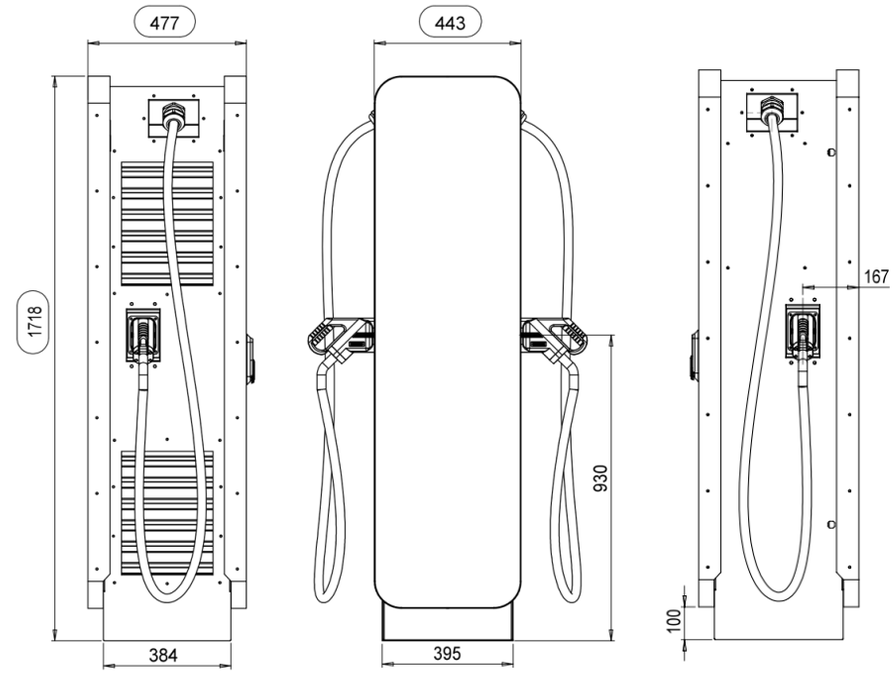
EN-61851-1_2011E	Electric vehicle conductive charging system – Part 1: General requirements
EN-61851-22:2002	Electric vehicle conductive charging system - Part 22: AC electric vehicle charging station
EN 61439-1:2011	Low-voltage substations and control gear - Part 1: General rules
EN 61439-3:2012	Low-voltage 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

PARAMETRY TECHNICZNE PUNKTÓW ŁADOWANIA

Plug type	CCS-2, CHAdeMO, type2
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].	from 3.5 to 10m
Power factor	0,98
Efficiency (%) of the connector	up to 96
Communication protocol	OCCP 1.6J (2.0 klar).
Changing station parameters	Firmware upgrade
Communications	LTE, GSM, ETHERNET, WIFI
Interface	TFT 10 inch screen

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

TECHNICAL DRAWING - DETAIL



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