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EVB

POWER DC

40 - 480 kW

TYPE
EVB Power DC Charging Stations for Electric Vehicle.

MODELS / DESIGNATIONS
PWR50-C2, PWR50-C2-C2, PWR50-C2-C2-R, PWR50-C H, PWR50-C2-CH, PWR50-C2-CH-R, PWR60-C2, PWR60-C2-C2, PWR60-C2-C2-R, PWR60-C2- CH, PWR60-C2-CH-R, PWR90-C2, PWR90-C2-C2, PWR90-C2-C2-R, PWR90-C2- CH, PWR90-C2-CH-R, PWR120-C2, PWR120-C2-C2, PWR120-C2-R, PWR120-C2-CH, PWR120-C2-CH-R, PWR150-C2, PWR150-C2-C2, PWR150-C2-C 2-R, PWR150-C2- CH,PWR150-C2-CH-R, PWR200-C2, PWR200-C2-C2, PWR200-C2-C2-R, PWR200-C2-CH, PWR200-C2-CH-R, PWR300-C2-C2, PWR300-C2-C2-R, PWR320-C2- C2, PWR320-C2-C2-R.

ADDITIONAL EQUIPMENT
ACTYPE2 – 22 kW plug type2, straight cable 4.8 m;
TKP – payment card terminal;
CCSCHA7M – CSS-2 or CHAdeMO cable extension up to 7 meters;
TYPE27M – cable extension to type2 up to 7 meters;
UP2040 – increase in station capacity from 20 to 40 kW;
FA10045506 – stand-alone construction with a set of screws that are not illuminated;
LED2MFRON – LED windshield lighting – 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 reflexer 1670x145x120;
GD12M – additional warranty for another 12 months after 24 months;

APPLICATION
Optional standalone DC and AC fast charging station. Designed for charging cars with a large battery capacity in public and industrial areas.

HOUSING DESIGN
- powder coated aluminum casing;
- front of tempered glass;
- stand-alone;
- free branding and coloring based on individual design.

CHARGING POINT CONNECTIONS
- CCS connector 2 (C2), with cable (Combo-2) Combo T2 with straight cable up to 4.8m;
- CHAdeMO (CH) connector with straight cable up to 4.8 m;
- plug type2 (ACTYP2) with straight cable up to 4.8m;
- Type2 socket (ACTYP2G) with locking device.

AVAILABLE CHARGING CAPACITY
- DC: 40/60/80/120/160/240/320/400/480 kW;
- AC: 22 kW;
- two or three vehicles at once with dynamic power sharing.

RELEVANT FEATURES
- main circuit breaker - fuse disconnector;
- surge protection;
- overcurrent protection;
- residual current protection;
- emergency stop switch;
- control of the state of isolation;
- higher harmonic filter;
- energy consumption meter at each workstation;
- thermostat;
- forced ventilation system.

CHARGE SIGNALING
- light-emitting diodes (RGB) that show the different charging stages;
- HD inserts - 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.

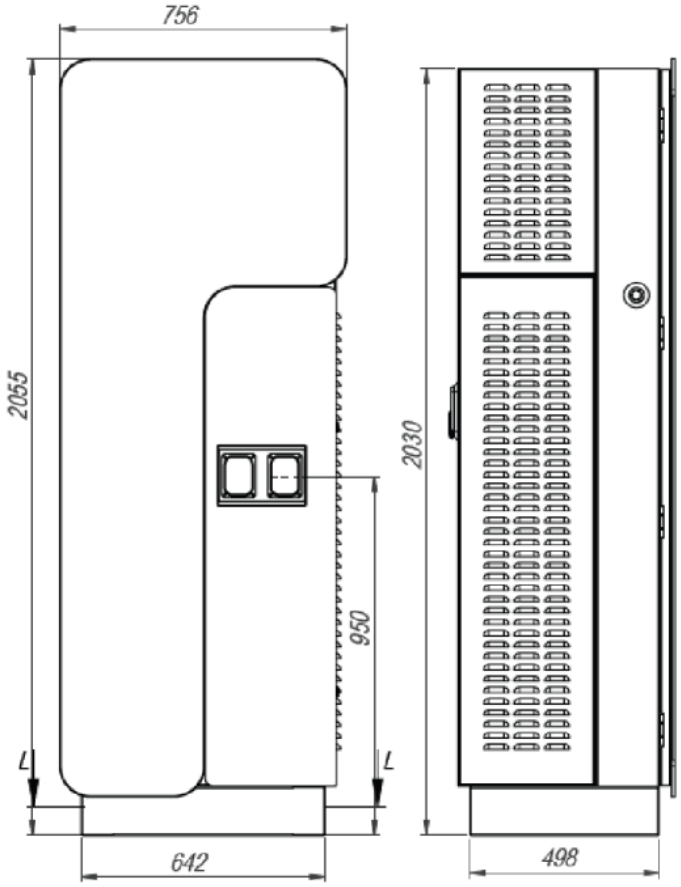
COMMUNICATION
- Ethernet;
- WiFi;
- GMS, 3G, LTE.

POWER SUPPLY SPECIFICATIONS

Cross section of the supply cable [mm2]	**50–300**
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]	**52–500**
Rated connection current [A]	**100–600**
Surge protection	**Type 2**

TECHNICAL PARAMETERS OF THE CHARGING POINTS

Type of plug	**CCS-2, CHAdeMO, type 2**
Maximum charging current [A]	**DC: 32 - 550, AC: 32 - 63**
Output voltage range	**150-1000 VDC, 400 VAC**
Charging standard	**Mode 4, ChAdeMO2, Type 2, IEC 61851, IEC 61851-23, IEC 61851-24, ISO 15118, DIN 70121, IEC 61851-1, IEC 62196-2**
Standard of communication	**ISO 15118, DIN 70121, CHAdeMO 1.1**
Length of the charging cable [m]	**3.5 up to 10**
Power factor	**0,98**
Connector efficiency (%)	**up to 96**
Communication protocols	**OCCP 1.6J (2.0 ready)**
Change station parameters	**Firmware upgrade**
Communication	**LTE, GSM, ETHERNET, WIFI**
Interface	**10-inch TFT display**



STANDARDS

EN-61851-1_2011E	**Leading charging systems for electric vehicles - Part 1: General requirements**
EN-61851-22:2002	**Leading Electric Vehicle Charging System - Part 22: AC Charging Station for Electric Vehicles**
EN 61439-1:2011	**Low voltage stations and control devices - Part 1: General rules**
EN 61439-3:2012	**Low-voltage stations and drivers -- Part 3: Distribution centre stations intended for use by persons other than the general public (DBO)**
EN 61439-5:2015-02	**Low-voltage stations and drivers -- Part 5: Devices for power distribution in public networks**
EN 50274:2004	**Low voltage stations and control stations -- Protection against electric shock -- Protection against accidental direct contact with hazardous live parts**
EN 62208:2006	**Empty enclosures for low-voltage stations and control rooms -- General requirements**
E 05163	**Shielding the low voltage stations 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 test 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, sockets, vehicle couplings and vehicle inlets -- Conductive charging of electric vehicles -- Part 1: General requirements**
EN 62196-2:2017-06	**Plugs, sockets, vehicle couplings and vehicle inlets -- Conductive charging of electric vehicles -- Part 2: Dimensional compatibility and interchangeability requirements for AC plug products and sockets**
EN 62196-3:2015-02	**Plugs, sockets, vehicle plugs and fordon inlets -- Conductive charging of electric vehicles -- Part 3: Dimensional compatibility and interchangeability requirements for DC and a.c./dc vehicle connectors with socket connectors and pin connectors**
ISO/IEC 14443	**Identity card - Proximity chips - Proximity card**
ISO/IEC 15693	**Identity card - Proximity chips - Proximity card**
EN 61000-6	**Electromagnetic compatibility (EMC) - Part 6-2: Generic standards - Immunity for industrial environments**

TECHNICAL SPECIFICATIONS OF THE HOUSING

Dimensions (H/W/D) [mm].	**2055/756/570**
Material	**Aluminium, tempered glass**
Colors	**RAL Year**
Protection class	**I/II**
IP/IK protection class	**54/10**
Weight [kg]	**60-120**
Operating temperature [st. C]	**-30 to +55**
Moisture content [%]	**95**
Noise Level [dB]	**<60**
Installation	**4xM12**

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