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**EVB**

**POWER**

**ADVERT DC**

**40 - 480 kW**





## TYPE

EVB Power DC Charging Stations for Electric Vehicle.

## 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;

## DOOH ACCESSORIES

TOUCH SCREEN - touch screen function for screen 55";  
 DSAP - 4K digital signage device for remote monitoring of content management;  
 MDSAP - LTE modem for 4K digital signage.

## APPLICATION

Standalone super-fast DC and AC charging station optional with 55" multimedia displays. Designed for charging cars with a high battery capacity in public spaces with high traffic density and potential advertising audiences.

## 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: 320/ 360/420/460 kW;
- ▶ three vehicles at once with dynamic power sharing.

## RELEVANT FEATURES

- ▶ main circuit breaker - fuse disconnecter;
- ▶ 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 screen - 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;
- ▶ GSM, 3G, LTE.

## MULTIMEDIA

- ▶ Samsung's high-brightness 55-inch display, mounted on the front of the station;
- ▶ a system for managing advertising content via the cloud (MagicInfo/Digital Signage);
- ▶ modem for communication with the advertising management system.

## POWER SUPPLY SPECIFICATIONS

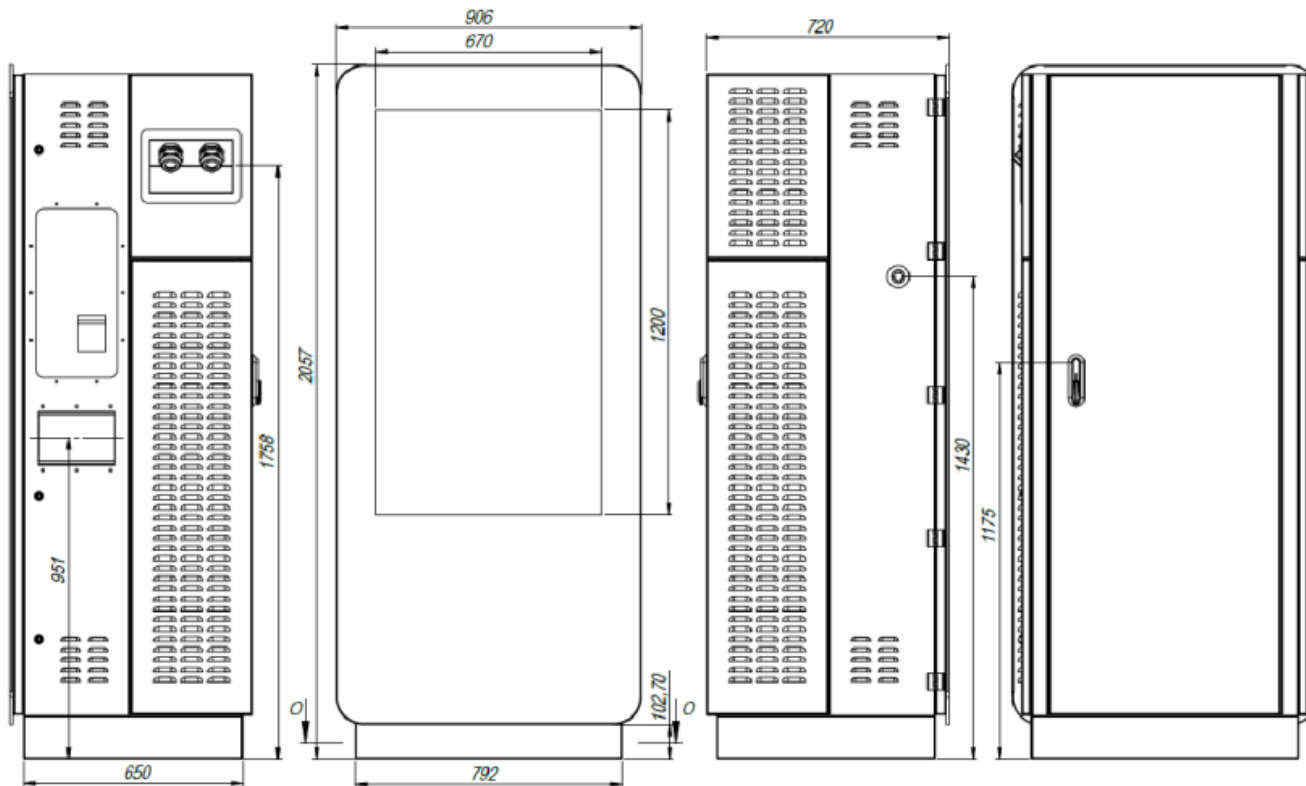
Cross section of the supply cable [mm <sup>2</sup> ]	<b>240-300</b>
Type of power supply	<b>3xL+N+PE</b>
Network layout	<b>TN-S, TNC-S, TT</b>
Rated switching voltage [V] (+/- 10%)	<b>400</b>
Rated insulation voltage [V]	<b>500/690</b>
Nominal frequency [Hz]	<b>50/60</b>
Withstands surge voltage [kV]	<b>8</b>
Rated connection power [kW]	<b>330-500</b>
Rated connection current [A]	<b>400-600</b>
Surge protection	<b>Type 2</b>

### TECHNICAL PARAMETERS OF THE CHARGING POINTS

Type of plug	2 x CCS-2
Maximum charging current [A]	400-550
Output voltage range	150-800 VDC
Charging standard	Mode 4, IEC 61851, IEC61851-23, IEC 6185124, ISO 15118, DIN 70121, IEC 61851-1, IEC 62196-2
Standard of communication	ISO 15118, DIN 70121
Length of the charging cable [m]	up to 4.8
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

### TECHNICAL SPECIFICATIONS OF THE HOUSE ADVERTISING SCREEN - SAMSUNG

Manufacturer	Samsung
Model	OM55N-S
Construction	Semi outdoor
Diagonal (inches)	55
Brightness (nit)	4000
Contrast	6000:1
Resolution	1920*1080 (Full HD)
Connection	HDMI 2.0
Power consumption	450W



## STANDARDS

EN-61851-1_2011E	<b>Leading charging systems for electric vehicles - Part 1: General requirements</b>
EN-61851-22:2002	<b>Leading Electric Vehicle Charging System - Part 22: AC Charging Station for Electric Vehicles</b>
EN 61439-1:2011	<b>Low voltage stations and control devices - Part 1: General rules</b>
EN 61439-3:2012	<b>Low-voltage stations and drivers -- Part 3: Distribution centre stations intended for use by persons other than the general public (DBO)</b>
EN 61439-5:2015-02	<b>Low-voltage stations and drivers -- Part 5: Devices for power distribution in public networks</b>
EN 50274:2004	<b>Low voltage stations and control stations -- Protection against electric shock -- Protection against accidental direct contact with hazardous live parts</b>
EN 62208:2006	<b>Empty enclosures for low-voltage stations and control rooms -- General requirements</b>
E 05163	<b>Shielding the low voltage stations and switchgear – Test guidelines for arc discharge conditions resulting from internal short circuits</b>
EN 60695-11-10:2014-02	<b>Fire hazard testing - Part 11-10: Test flames - 50 W flame test methods for horizontal and vertical test alignment</b>
EN ISO 14040:2009	<b>Environmental Management -- Life Cycle Assessment -- Principles and Structure</b>
EN ISO 14044:2009	<b>Environmental Management -- Life Cycle Assessment -- Requirements and Guidelines</b>
EN 62196-1:2015-05	<b>Plugs, sockets, vehicle couplings and vehicle inlets -- Conductive charging of electric vehicles -- Part 1: General requirements</b>
EN 62196-2:2017-06	<b>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</b>
EN 62196-3:2015-02	<b>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</b>
ISO/IEC 14443	<b>Identity card - Proximity chips - Proximity card</b>
ISO/IEC 15693	<b>Identity card - Proximity chips - Proximity card</b>
EN 61000-6	<b>Electromagnetic compatibility (EMC) - Part 6-2: Generic standards - Immunity for industrial environments</b>

## TECHNICAL SPECIFICATIONS OF THE HOUSING

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



## CONTACT US

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