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EVB POWER

ADVERT DC

40 - 160 kW

TYPE
EVB Power Advert DC Electric Vehicle Charging Stations

MODEL / DESIGNATIONS

PWR40-C2	without the possibility of extension by another kW - the possibility of replacing the CHAdeMO connector
PWR60-C2	possibility of expansion up to 80 kW - possibility of replacing the CHAdeMO connector
PWR60-C2-C2	without the possibility of extension by another kW - the possibility of replacing the CHAdeMO connector
PWR60-C2-C2-U	possibility of expansion up to 80 kW - possibility of replacing the CHAdeMO connector
PWR80-C2	without the possibility of extension by another kW
PWR80-C2-C2	without the possibility of extension by another kW - the possibility of replacing the CHAdeMO connector
PWR80-C2-C2-U	possibility of expansion up to 160 kW - possibility of replacing the CHAdeMO connector
PWR120-C2	expandable up to 160 kW
PWR120-C2-C2	without the possibility of extension by another kW - the possibility of replacing the CHAdeMO connector
PWR120-C2-C2-U	possibility of expansion up to 160 kW - possibility of replacing the CHAdeMO connector
PWR160-C2	expandable up to 240 kW
PWR160-C2-C2	no extension possible
PWR160-C2-C2-U	expandable up to 240 kW

ADDITIONAL EQUIPMENT
WDC - movable boom to support charging cables
ACTYP243 – type2 plug with a power of 22 kW, straight cable 4.8 m
TKP – payment card terminal
CCSCHA7M – CSS-2 or CHAdeMO cable extension up to 7 meters
TYP27M – cable extension for type2 up to 7 meters
FA10045506 – free-standing structure with a set of screws, non-illuminated
LED2MFRON – LED front windshield illumination – logo/lettering
FB12080108 – concrete base plate 1200x800x10
SLPI8070000 – protective barrier 800x70 wall mounting
SLPI1207000 - protective barrier 1200x70 fixed to the ground
SEKR901510 – black parking separator with reflectors 900x150x100
SEDL161412 – black parking separator with reflectors 1670x145x120
GD12M - additional warranty for the next 12 months
ZWM4080 - Power increase from 40 to 80 kW
ZWM6080 - Power increase from 60 to 80 kW
ZWM60120 - Power increase from 60 to 120 kW
ZWM80160 - Power increase from 80 to 160 kW
ZWM120160 - Power increase from 120 to 160 kW
ZWM160240 - Power increase from 160 to 240 kW

DOOH ACCESSORIES
TOUCHSCREEN - touchscreen function for screen 55
DSAP - 4K digital signage device for remote monitor content management
MDSAP - LTE modem for 4K digital signage

APPLICATION
Freestanding super fast DC and optional AC charging station with 55" multimedia screens. Designed for charging cars with high battery capacity in public spaces with high traffic density and potential advertising audiences.

DESCRIPTION
HOUSING DESIGN:
- Powder-coated aluminium housing;
- front made of toughened glass;
- free-standing;

Free branding and colouring based on individual design.

CONNECTORS AVAILABLE:
- CCS 2 (C2) plug, with cable (Combo-2) Combo T2 with straight cable from 3.5m;
- CHAdeMO (CH) plug with straight cable from 3.5m;
- type2 plug (ACTYP2) with a straight cable up to 4.8 m
- type2 socket (ACTYP2G) with lock.

AVAILABLE POINT CHARGING CAPACITIES:
- DC: 40/60/80/120/160 kW,
- AC: 22 kW.

Two or three vehicles simultaneously with dynamic power sharing.

RELEVANT FEATURES:
- main switch - fuse switch;
- overvoltage protection;
- overcurrent protection;
- residual current protection;
- emergency shutdown switch;
- insulation condition control;
- harmonic filter;
- energy consumption meter at each workstation;
- thermostat + 15 W heater - adaptive set 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.

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

TECHNICAL PARAMETERS OF THE CHARGING POINTS

Plug type	CCS-2, CHAdeMO, type-2
Maximum charging current [A]	DC: 32 - 250, AC: 32 - 63
Output voltage range	150-1000 VDC, 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 to 10m
Power factor	0,98
Efficiency (%) of the joint	to 96
Communication protocol	OCCP 1.6J (2.0 ready)
Changing 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].	2057/906/720
Package dimension [cm]	225/120/80
Material	Aluminium, toughened glass
Colours	Any RAL
Protection class	I / II
Protection class IP/IK	54/10
Weight [kg]	60-400
Operating temperature [st.C]	-30 to +55
Moisture content [%]	95
Noise level [dB]	<60
Installation	4xM12

ADVERTISING SCREEN - SAMSUNG

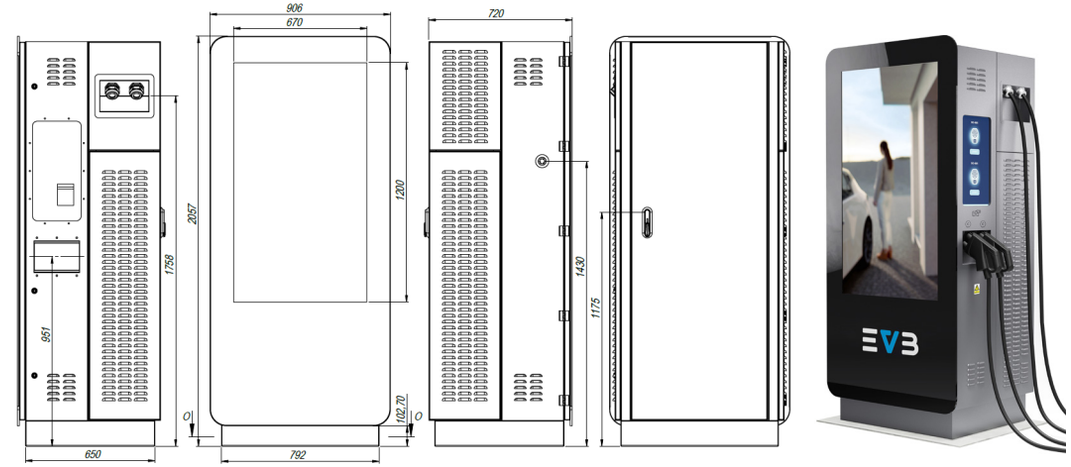
Producer	Samsung
Model	OM55N-S
Construction	Semi outdoor
Diagonal	55
Brightness (nit)	4000
Contrast	6000:1
Resolution	1920*1080 (Full HD)
Connection	HDMI 2.0
Power consumption	450W

POWER SUPPLY SPECIFICATIONS

Cross section of 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
Rated frequency [Hz]	50/60
Withstand surge voltage [kV].	8
Rated connection power [kW]	52-500
Rated connection current [A]	100-600
Overvoltage protection	Type 2

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



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