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EVB

ADVERT DC

40 - 120 kW





TYPE
EVB Advert DC electric vehicle charging stations.

MODELS / LABELING

PWR40-C2	without possibility of expansion by another kW
PWR60-C2	expandable up to 80 kW
PWR60-C2-C2	without the possibility of expanding by another kW
PWR60-C2-C2-U	expandable up to 80 kW
PWR80-C2	without the possibility of expanding by another kW
PWR80-C2-C2	without the possibility of expanding by another kW

*Station equipment may vary by model.

ACCESSORIES

ACTYP243 - plug type 2 up to 44 kW, straight cable 4.8 m
 TKP - payment terminal
 CCSCHA7M - CSS-2 cable extension by 7 meters
 TYP27M - type 2 cable extender up to 7 meters
 FA10045506 - freestanding structure with screw set, non-illuminated
 LED2MFRON - LED windshield illumination - logo/signs
 FB12080108 - concrete foundation slab 1200x800x10
 SLPI8070000 - 800x70 wall-mounted safety barrier
 SLPI1207000 - 1200x70 ground-mounted safety barrier
 SEKR901510 - black parking separator with reflectors 900x150x100
 SEDL161412 - black parking separator with reflectors 1670x145x120
 GD12M - additional warranty for another 12 months
 ZWM4080 - Increase in power from 40 to 80 kW
 ZWM6080 - Increase in power from 60 to 80 kW
 ZWM60120 - Increase in power from 60 to 120 kW.
 WDC - DC cable extension

DOOH ACCESSORIES

- ▶ TOUCH SCREEN - touchscreen function for 55-inch screen
- ▶ DSAP - 4K digital signaling device for remote management of monitor content
- ▶ MDSAP - LTE modem for 4K digital signaling

APPLICATION

Freestanding charging station for superfast DC and optional AC chargers with 55-inch multimedia screens. Designed to charge high-capacity battery cars in public spaces with high traffic density and potential advertising audience.

DESCRIPTION

HOUSING DESIGN:

- ▶ Powder-coated aluminum housing;
- ▶ The front is made of tempered glass;
- ▶ Freestanding;
- ▶ Free branding.

AVAILABLE CONNECTORS:

- ▶ CCS plug 2 (C2) with cable (Combo-2) Combo T2 with straight cable from 3.5 m;
- ▶ Type 2 plug (ACTYP2) with straight cable up to 4.8 m long;
- ▶ Type 2 receptacle (ACTYP2G) with locking device.

AVAILABLE CHARGING CAPACITIES OF POINTS:

- ▶ DC: 40/60/80/120 kW;
- ▶ AC: from 22kW up to 44 kW.
- ▶ Two vehicles simultaneously with dynamic power sharing.

ESSENTIAL EQUIPMENT

- ▶ main switch - fuse disconnecter;
- ▶ surge protection;
- ▶ overcurrent protection;
- ▶ residual-current protection;
- ▶ emergency disconnect switch for the charging process;
- ▶ checking the condition of insulation;
- ▶ higher harmonic filter;
- ▶ A meter for the energy consumed at each station;
- ▶ Thermostat + 45 W heater - outdoor adaptation kit;
- ▶ forced ventilation system.

CHARGING SIGNALING:

- ▶ LEDs (RGB) depicting the various stages of charging.

INTERFACE:

- ▶ buttons;
- ▶ RFID card reader in 13.56 MHz standard;
- ▶ payment card terminal.

COMMUNICATION PROTOCOL:

- ▶ OCPP 1.6J, OCPP 2.0.

COMMUNICATIONS:

- ▶ Ethernet;
- ▶ GMS, 3G, LTE.

MULTIMEDIA:

- ▶ Samsung production screen with a diagonal of 55 inches, high brightness, mounted on parts;
- ▶ front of the station;
- ▶ A system for managing advertising content through the cloud (MagicINFO/ Digital Signage);

TECHNICAL PARAMETERS OF CHARGING POINTS

Plug type	CCS-2, type-2
Maximum charging current [A].	DC: 32 - 250, AC: 32 - 63
Output voltage range	150-1000 VDC, 400 VAC
Charging standard	Mode 4, 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, 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 ready)
Changing station parameters	Firmware upgrade
Communications	LTE, GSM, ETHERNET
Interface	10 inch TFT screen
Payment	Payment card terminal

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

TECHNICAL PARAMETERS OF THE HOUSING

Dimension (H/W/D) [mm].	2057/906/720
Packing dimension [cm].	225/120/80
Material	Aluminum, tempered glass
Colors	Any RAL
Protection class	I / II
IP/IK degree of protection	54/10
Weight [kg].	60-400
Operating temperature [st.C].	-30 to +55
Moisture content [%]	95
Noise level [dB].	<60
Assembly	4xM12

ADVERTISING SCREEN - SAMSUNG

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

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

TECHNICAL PARAMETERS OF POWER SUPPLY

Cross section of power supply cable [mm2]	25-300
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]	40-300
Rated connection current [A].	65-450
Overvoltage protection	Type II



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