



DOT

# DC SCREEN

## CHARGER

50 - 320kW





## TYPE

EVB Power DC Electric Vehicle Charging Stations

## MODELS / DESIGNATIONS

PAWR50-C2, PAWR 50-C2-C2, PAWR 50-C2-C2-R, PAWR 50-C H, PAWR50-C2-CH, PAWR 50-C2-CH-R, PAWR 60-C2, PAWR 60-C2-C2, PAWR 60-C2-C2-R, PAWR 60-C2-CH, PAWR60-C-2-CH-R, PAWR90-C2, PAWR90-C2-C2, PAWR90-C2-C2-R, PAWR90-C2-CH, PAWR90-C2-CH-R, PAWR120-C2, PAWR120-C2-C2, PAWR120-C2-C2-R, PAWR120-C2-CH, PAWR120-C2-CH-R PAWR150-C2, PAWR150-C2-C2, PAWR150-C2-C2-R, PAWR150-C2-CH, PAWR150-C2-CH-R, PAWR200-C2, PAWR200-C2-C2, PAWR200-C2-C2-R, PAWR200-C2-CH, PAWR200-C2-CH-R, PAWR300-C2-C2, PAWR300-C2-C2-R, PAWR320-C2-C2, PAWR320-C2-C2-R.

## ADDITIONAL EQUIPMENT

ACTYP2 – 22 kW plug type2, straight cable 4.8 m  
 TKP – payment card terminal  
 CCSCHA7M – CSS-2 or CHAdeMO cable extension up to 7 metres  
 TYP27M – cable extension to type2 up to 7 metres  
 UP2040 – increase in station capacity from 20 to 40 kW  
 FA10045506 – free-standing construction with a set of screws non-illuminated  
 LED2MFRON – LED windscreen illumination - logo/inscription  
 FB12080108 – concrete slab 1200x800x10  
 FB405010015 – concrete slab 400x500x1000  
 SLP18070000 – safety barrier 800x70 wall mounted  
 SLP1207000- safety barrier 1200x70 floor mounting  
 SEKR901510 – parking separator black with reflectors 900x150x100  
 SEDL161412 – parking separator black with reflectors 1670x145x120  
 GD12M – additional guarantee for a further 12 months beyond 24 months

## 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.

## OPIS

Housing design:  
 ▶ Powder-coated aluminium housing;  
 ▶ front made of toughened glass;  
 ▶ free-standing;  
 Free branding and colouring based on individual design.

## CONNECTORS AVAILABLE:

▶ CCS plug 2 (C2), with cable (Combo-2) Combo T2 with straight cable up to 4.8m;  
 ▶ CHAdeMO (CH)plug 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 POINT CHARGING CAPACITIES:

▶ DC: 50/60/90/120/150/200/300/320 kW,  
 ▶ AC: 22 kW.

Two or three vehicles simultaneously with dynamic power sharing.

## RELEVANT FEATURES:

- ▶ main switch - fuse disconnecter;
- ▶ overvoltage protection;
- ▶ overcurrent protection;
- ▶ residual current protection;
- ▶ emergency stop switch;
- ▶ checking the state of insulation;
- ▶ higher harmonic filter;
- ▶ energy consumption meter at each workstation;
- ▶ heater;
- ▶ 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.

## POWER SUPPLY SPECIFICATIONS

Cross section of supply cable [mm <sup>2</sup> ]	50-240 mm <sup>2</sup>
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 – 350
Rated connection current [A]	100- 600
Overvoltage protection	type 2

## TECHNICAL PARAMETERS OF THE CHARGING POINTS

Plug type	CCS-2, CHAdeMO, type-2
Maximum charging current [A]	32 - 250, 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
Charging cable length [m]	Up to 4.8
Power factor	0.98
Coupling efficiency (%)	up 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

## TECHNICAL SPECIFICATIONS OF THE HOUSING

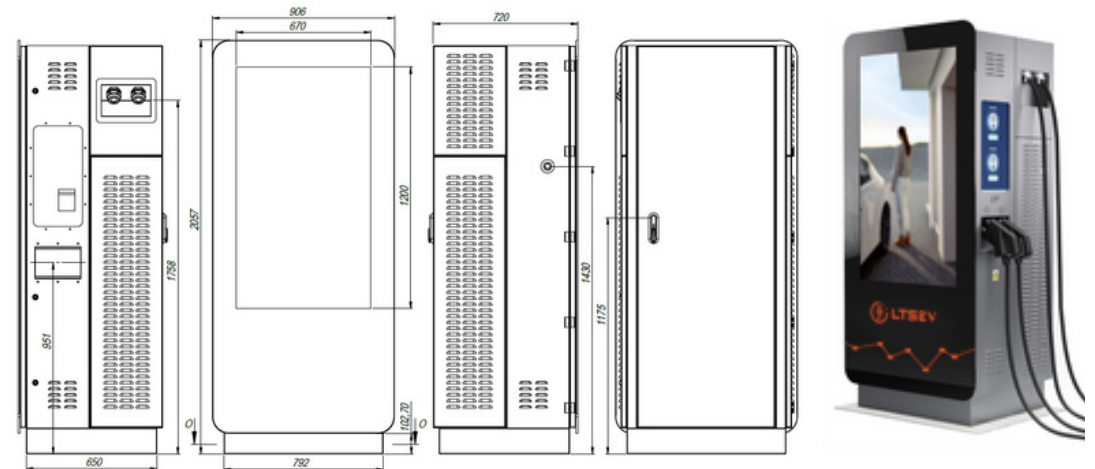
Dimension (H/W/D) [mm].	2055/756/570
Material	Aluminium, toughened glass
Colours	Any RAL
Protection class	I/II
Protection class IP/IK	54/10
Weight [kg]	60-120
Operating temperature [st.C]	-30 to +55
Moisture content [%]	95
Noise level [dB]	<60
Installation	4xM12

## ADVERTISING SCREEN - SAMSUNG

Manufacturer	Samsung
Model	OM55N-S
Construction	Semi outdoor
Diagonal (inch)	55
Brightness (nit)	4000
Contrast	6000:1
Resolution	1920*1080 (Full HD)
Link	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
EN61439-3:2012	Low-voltage substations and control gear -- Part 3: Distribution board stations intended for use by persons other than the public (DBO)
EN61439-5:2015-02	Low-voltage substations and control gear -- Part 5: Sets for power distribution in public networks
EN50274:2004	Low-voltage substations and control stations -- Protection against electric shock -- Protection against unintentional direct contact with hazardous live parts
EN62208:2006	Empty enclosures for low-voltage substations and control rooms -- General requirements
E05163	Shielded low-voltage substations and switchgear -- Test guidelines for arc-discharge conditions resulting from internal short circuits
EN60695-11-10:2014-02	Fire hazard testing - Part 11-10: Test flames - 50 W flame test methods for horizontal and vertical specimen alignment
ENISO14040:2009	Environmental management -- Life cycle assessment -- Principles and structure
ENISO14044:2009	Environmental management -- Life cycle assessment -- Requirements and guidelines
EN62196-1:2015-05	Plugs, socket-outlets, vehicle couplers and vehicle inlets -- Conductive charging of electric vehicles -- Part 1: General requirements
EN62196-2:2017-06	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
EN62196-3:2015-02	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/IEC14443	Identification cards - Proximity chips - Proximity cards
ISO/IEC15693	Identification cards - Proximity chips - Proximity cards
EN61000-6	Electromagnetic compatibility (EMC) - Part 6-2: Generic standards - Immunity for industrial environments







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