

Raption 50 (480 V)

DC Fast Charging Station for Electric Vehicles



Application

Designed to be installed in both public access environments (urban spaces, shopping centres, airports, road-side rest areas...) and private ones (companies with EV fleet, taxi stop stations...) where vehicles need to be ready to continue their journey in less than half an hour.

Concept Design

Conceived to address the main problem identified by Charge Point Owners / Operators when Fast Charging (low uptime), Raption 50 series bases its functioning in state-of-the-art modular power technology.

Another key attribute considered has been its external design. Sophisticated, slim and robust are just some attributes that can be used to describe this series and make it ideal for any type of site (from the most stylish urban area to industrial sites).

Product highlights

For Charge Point Operator / Owner

- Its **modular power technology** ensures a very high uptime (reducing the non-operation expenditure) since in case of power module failure the rest of modules continue charging.
- Lower energy consumption (and therefore OpEx) is achieved due to a **sustained high efficiency level** resulting from disconnecting power modules when lower charging power is requested by the EV.
- The modular architecture allows **power scalability** (e.g. from 25kW to 50kW) that offers a flexible solution to meet present and future EV growing battery demands.
- It offers a unique **connector care** concept by means of gun locking feature (optional) and cable floating design, which results on a reduction of cable breaking risk (i.e. lower OpEx and higher uptime).
- Its **double frontal key-locked door** provides an easy access to the inside of the charger which results in a lower OpEx due to a quicker installation and service (preventive/corrective). Moreover, it allows the charger to be installed next to a wall, optimising the available space.

For Charge Point User

- Its **8" touch-screen daylight readable** not only provides clear charging instructions (e.g. wrong EV shift position to start the charge) and plug status (e.g. reserved charge point) but also allows the user to select amongst several languages.
- User satisfaction is also increased due to its **build-in courtesy light** which both facilitates locating the charge point in dark areas and reading the messages contained in operator instruction labels.
- **Accessibility for the disabled** has also been considered, complying with international standards regarding the height of connectors/ display that facilitates its operation.

Raption 50 (480 V)

General Specifications

| | |
|-----------------------------|---|
| AC power supply | (3P + N) / (2P) + PE |
| AC Voltage | 480 / 277 V (III) / 208 - 240 V (II) |
| Power Factor | >0,98 |
| Efficiency | 95 % at nominal output power |
| Frequency | 50 / 60 Hz |
| Electrical input protection | Main breaker disconnection |
| Overcurrent protections | MCB |
| Safety protection | RCD 30mA Type A |
| Network connection | Ethernet 10/100BaseTX |
| Interface protocol | OCPP 1.5 or 1.6 J (optional) |
| Compliance | CE / Combo-2 (DIN 70121; ISO15118) EN61851-1; EN61851-23 CHAdeMO certified |
| Enclosure rating | IP54 / IK10 |
| Enclosure material | Stainless steel |
| Operating temperature | -30 °C to + 50 °C |
| Ambient temperature storage | -40 °C to + 60 °C |
| Operating humidity | 5 % to 95 % Non-condensing |
| RFID system | ISO / IEC14443A / B MIFARE Classic / DESFire EV1 ISO 18092 / ECMA-340 NFC 13.56MHz |

| | |
|------------------------------|---|
| Display HMI | 8" anti vandal touch screen |
| Power limit control | DC & AC by software |
| DC cable length CCS | 3 meters |
| DC cable length CHAdeMO | 3 meters |
| AC cable length | 3 meters |
| Lights for status indication | RGB colours indicator |
| Dimensions (D x W x H) | 310x940x1800 mm (without cable engaged) |
| Weight | 235 Kg |
| Cooling system | Air Cooling fans |
| Operational noise level | < 55 dBA |
| AC Meter | Complies with the EN 50470 (MID European standards) or IEC 62052-11 |

Compatible with DLM

Optional devices

| | |
|----------------------------------|--|
| Wireless Communication | 4G LTE / WiFi Hotspot / GRPS / GSM |
| Surge protection | Four pole transient surge protector IEC 61643-1 (class II) |
| Safety protection | RCD type B |
| Cable Length | 5.5m (all cables) |
| Anti-vandal connector protection | CHAdeMO, CCS (mechanical connector locking) |
| * 25 kW DC version | Power output DC of 25 kW (2 x 12,5 kW modules) |

Model Specifications

CCS CHA T2S32 (480 V) **

| | | |
|--------------------------------|---|----------------------|
| Maximum AC input current | DC side (III) 63 A | AC side (II) 35 A |
| Required power supply capacity | 53 kVA | 8,4 kVA |
| Maximum output power | DC: 50 kW (@400 VDC) AC: 7,7 kW | |
| Output voltage range | DC: 50 - 500 V AC: 208 - 240 V | |
| Maximum output current | DC: 125 A AC: 32 A | |
| Number of plugs | 3 | |
| Connector Type | CCS1 - JEVS G105 Type 2 socket (Lock system) | |



Designed for
Mexico and Latin America

Customizable for branding



** Double power supply line - 480 (III) / 208-240 (II)