



# Raption 22

DC Fast Charging Station for Electric Vehicles

#### **Application**

Designed to be installed in both public access environments (urban spaces, shopping centres, airports, public car parks...) and private ones (companies with EV fleet, EV car rental/sharing...) where DC charge is appreciated but power availability is limited. Its main interest is to have the users spending on the surrounding businesses.

#### **Concept Design**

Conceived to address the main problem identified by Charge Point Owners / Operators when Fast Charging (low uptime), Raption 22 series bases its functioning in state-of-the-art modular power technology.

Another key attribute considered has been external design. Sophisticated slim and robust are just some attributes that can be used to describe this series and that makes it ideal for any type of site.



#### **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.
- Simultaneous AC and DC capability, enabling two cars charging at the same time
- 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 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.
- Accessibility for the disabled has also been considered, complying with international standards regarding the height of connectors/ display that facilitates its operation.

## Raption 22 Series

## **General Specifications**

AC power supply	3P + N + PE		
AC Voltage	400V AC +/- 10%		
Power Factor	>0,98		
Efficiency	94 % at nominal output power		
Frequency	50 / 60 Hz		
Electrical input protection	Main breaker disconnection		
Overcurrent protections	MCB		
Safety protection	RCD 30 mA Type A		
Network connection	Ethernet 10/100 BaseTX		
Interface protocol	OCPP 1.5 (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	-5 °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 socket	Type 2 socket (lock system)		
Lights for status indication	RGB colour indicator		
Dimensions (D x W x H)	310x900x1700 mm (without cable engaged)		
Weight	230 Kg		
Cooling system	Air Cooling fans		
Operational noise level	< 55 dBA		
AC Meter	Complies with the EN 50470 (MID European standards) and IEC 62052-11		
Optional devices			
Wireless Comunication	4G LTE/WiFi Hotspot/GRPS/GSM		
Surge protection	Four pole transient surge protector IEC 61643-1 (class II)		
Safety protection	RCD type B		
Heater Climate control	-30 °C to + 45 °C		
Cable Length	5.5m (all cables)		
Anti-vandal connector protection	CHAdeMO, CCS		

## **Models Specifications**

Models	CCS CHA T2S32	CCS CHA	ccs	СНА
Maximum AC input current	64A	35A	35A	35A
Required power supply capacity	45 kVA	24 kVA	24 kVA	24 kVA
Maximum output power	22,5 kW (@400VDC) AC:22 kW	22,5 kW (@400VDC)	22,5 kW (@400VDC)	22,5 kW (@400VDC)
Output voltage range	DC: 150 - 500 VDC AC: 400V AC	DC:150 - 500 VDC	DC:150 - 500 VDC	DC:150 - 500 VDC
Maximum output current	DC:56A DC AC:32A AC	DC:56A DC	DC:56A DC	DC:56A DC
Number of plugs	3	2	1	1
Connection	CCS 2- JEVS G105 Type 2 socket (Lock system)	CCS 2 - JEVS G105	CCS 2	JEVS G105















### **Customisation Examples**

Raption 22 series offers a wide frontal surface that can be easily customised.





