circontrol

Raption 200
The best solution for eBuses and service stations

Application

Designed to be installed in road-side rest areas and service stations, where vehicles with large batteries require high charging power to be ready to continue their journey in less than half hour, minimizing charging time.

Concept Design

Designed to solve the main problems identified by charge point owners/operators when fast charging (low uptime),
the Raption 200 is based on state-of-the-art modular power technology.

Another key attribute considered was the exterior design. Sophisticated, slim and robust are just some adjectives that can be used to describe this charger, that make it perfect for any type of emplacement (from the most stylish urban areas to industrial ones).

Product highlights

For Charge Point **Operators / Owners**

- Its separated dispenser has a **reduced footprint**, which allows to minimise the used space into the parking bay or the facilities.

- Its **modular power technology** ensures a higher uptime (reducing the non-operation expenditure), because in the event of a power module failure, the rest of the modules can keep the charge running.

- 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.

- It offers a unique **connector care concept** by means of the connector locking feature (optional) and floating cable design, which reduces the risk of the cable breaking (i.e., lower OPEX and higher uptime).

- The lockable door at the front **facilitates maintenance and repairs access**, which results in a lower OPEX due to quicker installation and servicing (preventive/corrective).

- The system can be **set as a master** in the master-satellite solution including DC & AC charge points.

For Charge Point **Users**

- Thanks to its two outputs, **it can charge CHAdeMO or CSS output EVs in any case** giving this possibility to charge to every user.

- Its **8" anti-vandal colour touchscreen daylight readable** not only provides clear charging instructions (e.g. incorrect EV position to start the charge) and operating status (e.g. reserved charge point), but also allows the user to select from several languages.

- User satisfaction is also increased due to its **built-in courtesy light** which both facilitates locating the charge point in dark areas and reading the messages included on operating instruction labels.

- **Accessibility for disabled users** has also been considered, complying with international standards regarding the height of connectors/displays, thus facilitating their use.

- The Raption series can be optionally equipped with an **integrated payment terminal** to facilitate payments by credit card and enhance the user experience. Our contactless terminal allows to pay without a membership model and can operate with or without a back-office platform.

Raption 200

General Specifications

Compliance

Compliance	CE / Combo-2 (DIN 70121; ISO15118) IEC 61851-1; IEC 61851-23; IEC 61851-21-2
	CHAdeMO compatible
Enclosure rating	IP54 / IK10
Enclosure material	Stainless steel
Operating temperature	-30°C to +50°C
Storage temperature	-40°C to +60°C
Operating humidity	5% to 95% Non-condensing

Dispenser

Network connection	Ethernet 10/100BaseTX
Interface protocol	OCPP 1.5 / 1.6J, HW ready for update to OCPP 2.0
RFID reader	ISO / IEC14443-1/2/3 MIFARE Classic
Display HMI	8" anti-vandal colour touchscreen
Power limit control	DC by software
Cable length	4 m (all cables)
Light beacon	RGB colours indicator
Dimensions (D x W x H)	380x470x2070 mm (without cable engaged)
Weight	120 kg
Noise level	Not perceptible
Wireless Communication EU	4G LTE /WiFi Hotspot/GPRS/GSM
AC Meter	Compliant with the EN 50470-1 and EN 50470-3 (MID European standards) or IEC 62052-11

Power Unit

AC power supply	3P + N + PE
AC Voltage	400V AC +/- 10%
Maximum AC input current	318 A
Power supply capacity	220kVA
Power Factor	>0.98
Efficiency	94% at nominal output power
Frequency	50 / 60 Hz
Cooling system	Forced air
Noise level	< 55 dBA
Electrical input protection	Load Break Switching (LBS)
Dimensions (D x W x H)	850x605x2302 mm
Weight	220 kg

Optional devices

Cable Length	5.5 m (all cables)
Anti-vandal connector protection	CHAdeMO, CCS (mechanical connector locking)
RFID Extension	Legic Advant / Legic Prime ISO 15693/ISO 18092. Sony FeliCa
Contactless payment	Built-in credit card payment terminal
Wireless Communication LATAM/APAC	4G LTE/GPRS/GSM

Model Specifications

Raption 200 Models	CCS	CCS CHA
Maximum output power	CCS: 200 kW	CCS: 200 kW CHA: 100 kW *Non-simultaneous*
Output voltage	CCS: 150-920V	CCS: 150-920V CHA: 100-500V
Maximum output current	CCS: 375A	CCS: 375A CHA: 200A
Connection		

200 kW
UNCOOLED