Raption 150

The best solution for eBuses and petrol stations

Application

Designed to be installed in highways' rest areas and petrol stations where vehicles with large batteries require high charging power to be ready to continue their journey in less than half hour and minimise charging time.

Concept Design

Conceived to address the main problems identified by Charge Point Owners / Operators when Fast Charging (low uptime), Raption 150 series is based on 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 that makes it ideal for any type of site (from the most stylish urban areas to the industrial ones). Raption 150's modular architecture allows power scalability from 100 kW to 150 kW.

EV Quick Charger

CIRCONTROL

Product highlights

For Charge Point **Operator / Owner**

- **Simultaneous DC charge** able to charge 2 EV's at the same time by splitting the available power (e.g. 75kW+75kW).

- Its **modular power technology** ensures high uptimes (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** from 100kW to 150kW.

- 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 servicing (preventive/corrective). Moreover, it allows the charger to be installed next to a wall, optimising the available space.

- Capable of being configured as a Master for the **Master-Slave solution**

For Charge Point **User**

- Its **8" colour antivandal 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 **built-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 150 *Series*

General Specifications

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	-10 ºC to + 50 ºC
Ambient temperature storage	- 20 ºC to + 60 ºC
Operating humidity	5 % to 95 % Non-condensing

Dispenser	
Network connection	Ethernet 10/100BaseTX
Interface protocol	OCPP 1.5 or OCPP 1.6J
RFID system	ISO / IEC14443-1/2/3 MIFARE Classic
Display HMI	8" colour antivandal touch screen
Power limit control	DC by software
DC cable lenght CCS	3,4 meters
DC cable lenght CHAdeMO	3,4 meters
Lights for status indication	RGB colours indicator
Dimensions (D x W x H)	378x420x2067mm
Weight	115 kg
Operational noise level	Not perceptible
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	237A / 160A*
Required power supply capacity	163kVA / 110kVA*
Power Factor (pu)	>0,98
Efficiency (pu)	94 % at nominal output power
Frequency (pu)	50 / 60 Hz
Cooling system	Forced air
Operational noise level	< 55 dBA
Electrical input protection	Main circuit disconnection
Overcurrent protections	MCB
Safety protection (pu)	RCD 30mA Type A
Dimensions (D x W x H)	800x1000x2100mm
Weight	420 kg

Optional devices	
Wireless Comunication	4G LTE /WiFi Hotspot/GPRS/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)
RFID Extension	Legic Advant / Legic Prime ISO 15693/ISO 18092. Sony FeliCa
Low Temperature Kit	-30ºC to +50ºC

* Raption 100 Models

Models Specifications

Raption 150 Models	CCS200	CCS250	CCS200 CHA125	CCS250 CHA200
Maximum output power	CCS:150kW*	CCS:150kW*	CCS:150kW* CHA:50KW	CCS:150kW* CHA:50KW**
Output voltage range	CCS:100-920V	CCS:100-920V	CCS:100-920V CHA:100-500V	CCS:100-920V CHA:100-500V
Maximum output current	CCS:200A	CCS:250A	CCS:200A CHA:125A	CCS:250A CHA:200A
Connection				
	* 150kW @750-920V 80kW @400V	** 150kW @600-920V 100kW @400V*	** 150kW @750-920V 80kW @400V*	** 150kW @600-920V 100kW @400V* *** HW ready up to 100kW by FW update*

Raption 100 Models	CCS200	CCS250	CCS200 CHA125	CCS250 CHA200
Maximum output power	CCS:100kW*	CCS:100kW*	CCS:100kW* CHA:50KW	CCS:100kW* CHA:50KW**
Output voltage range	CCS:100-920V	CCS:100-920V	CCS:100-920V CHA:100-500V	CCS:100-920V CHA:100-500V
Maximum output current	CCS:200A	CCS:250A	CCS:200A CHA:125A	CCS:250A CHA:200A
Connection				
	* 100kW @500-920V 80kW @400V	** 100kW @400V*	** 100kW @500-920V 80kW @400V*	** 100kW @400V* *** HW ready up to 100kW by FW update*

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