Raption 50 & 50 HV EVO

The perfect combination of power, design and reliability

Application

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

Concept Design

Designed to address the main problem identified by charge point owners/ operators when fast charging (low uptime), the Raption 50 series is bases on state-of-the-art modular power technology.

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

Product highlights

For Charge Point **Operators / Owners**

- Its **modular power technology** ensures a very high uptime (reducing the non-operation expenditure), because in the event of a power module failure, the rest of the 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.

- Raption 50 HV EVO is **upgradable to 100 kW**.

- 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.

- The **double door** at the front with key access provides an easy access to the charger for quicker installation and service. Moreover, it allows the charger to be installed next to a wall, optimising the available space.

- Possible to configure as a **Master for the Master-Satellite** solution.

- **480 V model** available for Mexico and other countries in Latin America.

For Charge Point **Users**

- Its **8" anti-vandal daylight readable colour touchscreen** not only provides clear charging instructions (e.g. incorrect EV shift position to start the charge) and operating status (e.g. reserved charge point), but it 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 operator instruction labels.

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

- **Integrated contactless payment system:** Offers an easy, intuitive and contactless card payment experience.

Raption 50 & 50 HV EVO *Series*

General Specifications

AC Power Supply	3P + N + PE
AC Voltage	400V AC +/- 10%
Power Factor	>0.98
Efficiency	95% at nominal output power
Frequency	50 / 60 Hz
Electrical input protection	Main breaker disconnection
Overcurrent protection	MCB
Safety protection	RCD Type B
Network connection	Ethernet 10/100BaseTX
Interface protocol	OCPP 1.5 / 1.6J, HW ready for update to OCPP 2.0
Compliance	CE / Combo-2 (DIN 70121; ISO15118) IEC 61851-1; IEC 61851-23, 21-2
	CHAdeMO compatible
Enclosure rating	IP54 / IK10
Enclosure material	Stainless steel
Operating temperature	-30 ºC to +50 ºC
Ambient temperature storage	-40 ºC to +60 ºC
Operating humidity	5% to 95% Non-condensing
RFID system	ISO / IEC14443-1/2/3 MIFARE Classic
Display HMI	8" anti-vandal colour touchscreen
Power limit control	DC & AC by software

Cable length	3 meters (CCS, CHA, Type2)
Lights for status indication	RGB colour indicator
Dimensions (D x W x H)	355x940x1800 mm (without cable engaged)
Weight	235 kg
Cooling system	Air cooling fans
Operational noise level	< 55 dB
AC Meter	Compliant with the EN 50470-1 and EN 50470-3 (MID EU)
Wireless Communication EU	4G LTE/WiFi Hotspot/GPRS/GSM
Optional devices	
Wireless Communication	**LATAM/APAC**/4G LTE/GPRS/GSM
Surge protection	Four pole transient surge protector IEC 61643-1 (class II)
Cable Length	5.5 metres (all cables)
Anti-vandal connector protection	CHAdeMO, CCS (mechanical connector locking)
Type 2 charging socket	Shutter
Network hub	Switch TCP ethernet 8 ports
RFID Extension	Legic Advant / Legic Prime ISO 15693/ISO 18092. Sony FeliCa
Contactless payment	Integrated credit card payment terminal

Model Specifications

Models	CCS	CCS T2C32	CCS T2S32	CCS CHA T2S32	CCS CHA T2C32
Maximum AC input current	76 A	108 A	108 A	108 A	108 A
Required power supply capacity	53 kVA	75 kVA	75 kVA	75 kVA	75 kVA
Maximum output power	50 kW (@400 VDC)	DC: 50 kW (@400 VDC) AC: 22 kW	DC: 50 kW (@400 VDC) AC: 22 kW	DC: 50 kW (@400 VDC) AC: 22 kW	DC: 50 kW (@400 VDC) AC: 22 kW
Output voltage range	DC: see table below	DC: see table below AC: 400 V	DC: see table below AC: 400 V	DC: see table below AC: 400 V	DC: see table below AC: 400 V
Maximum output current	DC: 125 A	DC: 125A AC: 32 A	DC: 125A AC: 32 A	DC: 125 A AC: 32 A	DC: 125 A AC: 32 A
Connection	CCS 2	CCS 2 Type 2 Tethered cable	CCS 2 Type 2 Socket (Lock system)	CCS 2 - JEVS G105 Type 2 Socket (Lock system)	CCS 2 - JEVS G105 Type 2 Tethered cable

Raption 50 Series

Series	German "Eichrechts" Compliant	DC output range	Upgradable to 100 kW
Raption 50	Optional	50 - 500 V	❌
Raption 50 HV EVO	❌	50 - 920 V	Optional