Raption 50

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.

- The modular architecture allows **power scalability** from 25 kW to 50 kW to meet present and future EV battery demands.

- 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-Slave** solution (p. 22).

- **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 *Series*

General Specifications

AC Power Supply	3P + N + PE		**Power limit control**	DC & AC by software
AC Voltage	400V AC +/- 10%		**Cable length**	3 metres (CCS, CHA, AC)
Power Factor	>0.98		**Lights for status indication**	RGB colour indicator
Efficiency	95% at nominal output power		**Dimensions (D x W x H)**	355x940x1800 mm (without cable engaged)
Frequency	50 / 60 Hz		**Weight**	235 kg
Electrical input protection	Main breaker disconnection		**Cooling system**	Air cooling fans
Overcurrent protection	MCB		**Operational noise level**	< 55 dBA
Safety protection	RCD Type B		**AC Meter**	Compliant with the EN 50470-1 and EN 50470-3 (MID EU)
Network connection	Ethernet 10/100BaseTX		**Wireless Communication EU**	4G LTE/WiFi Hotspot/GPRS/GSM
Interface protocol	OCPP 1.5 / 1.6J, HW ready for update to OCPP 2.0		**Optional devices**	
Compliance	CE / Combo-2 (DIN 70121; ISO15118) IEC 61851-1; IEC 61851-23, 21-2		**Wireless Communication**	**LATAM/APAC**/4G LTE/GPRS/GSM
	CHAdeMO compatible		**Surge protection**	Four pole transient surge protector IEC 61643-1 (class II)
	Eichrechtskonform (German PTB certified)		**Cable Length**	5.5 metres (all cables)
Enclosure rating	IP54 / IK10		**Anti-vandal connector protection**	CHAdeMO, CCS (mechanical connector locking)
Enclosure material	Stainless steel		**Type 2 charging socket**	Shutter
Operating temperature	-30 ºC to +50 ºC		**25 kW DC version**	Power output DC of 25 kW
Ambient temperature storage	-40 ºC to +60 ºC		**Network hub**	Switch TCP ethernet 8 ports
Operating humidity	5% to 95% Non-condensing			Switch TCP ethernet 12 ports
Socket protection	Locking System		**RFID Extension**	Legic Advant / Legic Prime ISO 15693/ISO 18092. Sony FeliCa
RFID system	ISO / IEC14443-1/2/3 MIFARE Classic		**Contactless payment***	Integrated credit card payment terminal
Display HMI	8" anti-vandal colour touchscreen		**Eichrechtskonform**	German PTB certified

* Ask for availability.

Model Specifications

Models	CCS	CCS T2C32	CCS T2S32
Maximum AC input current	76 A (38 A*)	108 A (70 A*)	108 A (70 A*)
Required power supply capacity	53 kVA (26 kVA*)	75 kVA (48 kVA*)	75 kVA (48 kVA*)
Maximum output power	50 kW (25 kW*) (@400 VDC)	DC: 50 kW (25 kW*) (@400 VDC) AC: 22 kW	DC: 50 kW (25 kW*) (@400 VDC) AC: 22 kW
Output voltage range	DC: 50 - 500 V	DC: 50 - 500 V AC: 400 V	DC: 50 - 500 V AC: 400 V
Maximum output current	DC: 125 A (63 A*)	DC: 125A (63 A*) AC: 32 A	DC: 125A (63 A*) AC: 32 A
Connection	CCS 2	CCS 2 Type 2 Tethered cable	CCS 2 Type 2 Socket (Lock system)

Models	CCS CHA	CCS CHA T2S32	CCS CHA T2C32	CCS CHA T2C63
Maximum AC input current	76 A (38 A*)	108 A (70 A*)	108 A (70 A*)	138 A (101 A*)
Required power supply capacity	53 kVA (26 kVA*)	75 kVA (48 kVA*)	75 kVA (48 kVA*)	96 kVA (70 kVA*)
Maximum output power	50 kW (25 kW*) (@400 VDC)	DC: 50 kW (25 kW*) (@400 VDC) AC: 22 kW	DC: 50 kW (25 kW*) (@400 VDC) AC: 22 kW	DC: 50 kW (25 kW*) (@400 VDC) AC: 43 kW
Output voltage range	DC: 50 - 500 V	DC: 50 - 500 V AC: 400 V	DC: 50 - 500 V AC: 400 V	DC: 50 - 500 V AC: 400 V
Maximum output current	DC: 125 A (63 A*)	DC: 125 A (63 A*) AC: 32 A	DC: 125 A (63 A*) AC: 32 A	DC: 125 A (63 A*) AC: 63 A
Connection	CCS 2 - JEVS G105	CCS 2 - JEVS G105 Type 2 Socket (Lock system)	CCS 2 - JEVS G105 Type 2 Tethered cable	CCS 2 - JEVS G105 Type 2 Tethered cable

* 25 kW DC version

rev. 3.3