

Raption 100

Ideal to satisfy the rapid charging needs of new EVs

Application

Designed to be installed in both public access spaces (urban and inter-urban spaces, service areas...) and private ones (EV fleets, taxi ranks...) where EVs need to minimise their charge times as much as possible.

Concept Design

Designed to satisfy the rapid charging needs of new EV models with larger batteries capable of offering greater autonomy, but without sacrificing the design nor most of the features that defined its predecessor, the Raption 50: modular power technology, elegant yet robust design, user-friendliness and reliability.



Product highlights

For Charge Point Operators / Owners

- **Greater charging power:** Its 25 kW charging modules allow it to offer up to 100 kW, doubling the charging power of the Raption 50.
- **Scalability and flexibility:** Its modular architecture allows for power scalability of 50 kW or 100 kW depending on the contracted power, and for this power to be adapted to the growing battery sizes of new EV models. Furthermore, the modular power guarantees very high uptime, as if one of the modules fails, the others will keep working. Likewise, when an EV needs less charging power, modules can be disconnected and energy consumption reduced thanks to its sustained efficiency.
- **Compact and 100% customisable design:** It maintains the elegant, high-quality and robust enclosure of the Raption 50, one of the most highly rated charge points on the market.
- **Reduced OPEX:** It maintains features such as the connector locking and the floating cable design, which result in increased durability. Furthermore, the door at the front with key access reduces repair and maintenance times and allows the charger to be installed next to a wall, optimising the available space.
- **Configurable as a Master:** Can be configured as a Master for multi-point solutions.

For Charge Point Users

- **8-inch colour touch screen:** The user receives clear charging instructions as well as the connector status on the touch screen. It also allows the user to select from several languages.
- **Built-in courtesy light:** Facilitates locating the charge point in dark areas and reading the operator instructions.
- **Accessibility:** The height of the connectors and the screen have been adapted to comply with standards in order to improve accessibility for disabled people.
- **Integrated contactless payment system:** Offers an easy, intuitive and contactless card payment experience.

Raption 100 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; IEC 61851-21-2 CHAdEMO compatible
Enclosure rating	IP54 / IK10
Enclosure material	Stainless steel
Operating temperature	-30 °C to +50 °C
Ambient temperature storage	-40 °C to +60 °C
Operating humidity	5% to 95% Non-condensing
Socket protection	Locking System
RFID system	ISO / IEC14443-1/2/3 MIFARE Classic
Display HMI	8" anti-vandal colour touchscreen
Power limit control	DC & AC by software



DC cable length CCS	3 metres
DC cable length CHAdEMO	3 metres
AC cable length	3 metres
Lights for status indication	RGB colour indicator
Dimensions (D x W x H)	355x940x1800 mm (without cable engaged)
Weight	255 kg
Cooling system	Air cooling fans
Operational noise level	< 55 dBA
AC Meter	Compliant with the EN 50470-1 and EN 50470-3 (MID European standards) or IEC 62052-11
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)
CHAdEMO cable upgrade	200 A (100 kW)*
Anti-vandal connector protection	CHAdEMO, CCS (mechanical connector locking)
Type 2 charging socket	Shutter
50 kW DC version	Power output DC of 50 kW
Network hub	Switch TCP ethernet 8 ports Switch TCP ethernet 12 ports
RFID Extension	Legic Advant / Legic Prime ISO 15693/ISO 18092. Sony FeliCa
Contactless payment**	Integrated credit card payment terminal

* HW ready SW available within 2021.

** Ask for availability.

Model Specifications

Models	CCS	CCS T2C32	CCS T2S32
Maximum AC input current	160 A	192 A	192 A
Required power supply capacity	110 kVA	132 kVA	132 kVA
Maximum output power	100 kW	DC: 100 kW AC: 22 kW	DC: 100 kW AC: 22 kW
Output voltage range	DC: 150 - 920 V	DC: 150 - 920 V AC: 400 V	DC: 150 - 920 V AC: 400 V
Maximum output current	DC: 250 A	DC: 250 A AC: 32 A	DC: 250 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 T2C32	CCS CHA T2S32
Maximum AC input current	160 A	192 A	192 A
Required power supply capacity	110 kVA	132 kVA	132 kVA
Maximum output power	CCS 100 kW CHA 50 kW	DC: CSS 100 kW / CHA 50 kW AC: 22 kW	DC: CSS 100 kW / CHA 50 kW AC: 22 kW
Output voltage range	DC: 150 - 920 V	DC: 150 - 920 V AC: 400 V	DC: 150 - 920 V AC: 400 V
Maximum output current	DC: CSS 250 A / CHA 125 A	DC: CSS 250 A / CHA 125 A AC: 32 A	DC: CSS 250 A / CHA 125 A AC: 32 A
Connection	CCS 2 - JEVS G105 	CCS 2 - JEVS G105 Type 2 Tethered cable 	CCS 2 - JEVS G105 Type 2 Socket (Lock system) 