

# 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




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

<b>DC cable length CCS</b>	3 metres
<b>DC cable length CHAdEMO</b>	3 metres
<b>AC cable length</b>	3 metres
<b>Light beacon</b>	RGB colour indicator
<b>Dimensions (D x W x H)</b>	355x940x1800 mm (without cable engaged)
<b>Weight</b>	255 kg
<b>Cooling system</b>	Air cooling fans
<b>Operational noise level</b>	< 55 dB
<b>AC Meter</b>	Compliant with the EN 50470-1 and EN 50470-3 (MID European standards) or IEC 62052-11
<b>Wireless Communication EU</b>	4G LTE/WiFi Hotspot/GPRS/GSM
<b>Optional devices</b>	
<b>Wireless Communication</b>	LATAM/APAC/4G LTE/GPRS/GSM
<b>Surge protection</b>	Four pole transient surge protector IEC 61643-1 (class II)
<b>Cable Length</b>	5.5 metres (all cables)
<b>CHAdEMO cable upgrade</b>	200 A (100 kW)
<b>Anti-vandal connector protection</b>	CHAdEMO, CCS (mechanical connector locking)
<b>Type 2 charging socket</b>	Shutter
<b>50 kW DC version</b>	Power output DC of 50 kW
<b>Network hub</b>	Switch TCP ethernet 8 ports
<b>RFID Extension</b>	Legic Advant / Legic Prime ISO 15693/ISO 18092. Sony FeliCa
<b>Contactless payment*</b>	Integrated credit card payment terminal

\* Ask for availability.

## Model Specifications

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

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