

SWARCO

# RAPTION 100

IDEAL TO SATISFY THE RAPID CHARGING NEEDS OF NEW EV'S

## APPLICATION

Suitable for both public and private sites, be they urban, inter-urban or rural, the user-friendly Raption 100 is the ideal solution when speed of charge is a top priority.



## CONCEPT DESIGN

Delivering 100kW of power per hour to a vehicle, the Raption 100 has been designed to address the rapid charging needs of new EV models with larger batteries.

Tried & tested state-of-the-art technology from the popular Raption DC portfolio, ensures high uptime thanks to its unique modular construction. The elegant external design, which is slim and yet robust, makes this ideal for all settings.

## PRODUCT HIGHLIGHTS

### *For Charge Point Operator / Owner*

- **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 25 kW, 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 Controller:** Can be configured as a Controller for multi-point solutions.

### *For Charge Point User*

- **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 (pu)	>0.98
Efficiency (pu)	95% at nominal output power
Frequency (pu)	50 / 60 Hz
Electrical input protection	Main breaker disconnection
Overcurrent protection	MCB
Safety protection (pu)	RCD Type B
Network connection	Ethernet 10/100BaseTX
Interface protocol	OCPP 1.5 or OCPP 1.6J
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
Operating humidity	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 meters




DC cable length CHAdeMO	3 meters
AC cable length	3 meters
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	5.5m (all cables)
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

\* Ask for availability.

## MODEL SPECIFICATIONS

RAPTION 100 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 (@400 VDC)	DC: 100 kW (@400 VDC) AC: 22 kW	DC: 100 kW (@400 VDC) 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) 

RAPTION 100 MODELS	CCS CHA	CCS CHA T2S32	CCS CHA T2C32
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 (@400 VDC)	DC: 100 kW (@400 VDC) AC: 22 kW	DC: 100 kW (@400 VDC) 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 200 A	DC: CSS 250 A / CHA 200 A AC: 32 A	DC: CSS 250 A / CHA 200 A AC: 32 A
Connection	CCS 2 - JEVS G105 	CCS 2 - JEVS G105 Type 2 Socket (Lock system) 	CCS 2 - JEVS G105 Type 2 Tethered cable 