Raption 50

La combinación perfecta de potencia, diseño y fiabilidad

Aplicación

Diseñado para instalarse en entornos de acceso público (espacios urbanos, centros comerciales, aeropuertos, áreas de servicio…) y privado (empresas con flotas de VE, estaciones de taxis…) donde los vehículos necesiten continuar su trayecto en menos de media hora.

Diseño conceptual

Concebido para solucionar los principales problemas identificados en la Carga Rápida por los operadores / propietarios de puntos de recarga, la serie Raption 50 basa su funcionamiento en una innovadora tecnología de potencia modular.

Otro aspecto clave es su diseño externo. La serie Raption 50 es sofisticada y fina pero a su vez robusta, lo que la hace ideal para cualquier ubicación (desde los entornos urbanos más estilosos a las áreas industriales).

Aspectos destacados

Para el **Operador / Propietario**

- Su tecnología de **potencia modular** garantiza un tiempo de funcionamiento alto, reduciendo gastos de explotación ya que si alguno de los módulos falla, el resto sigue funcionando.

- Menor consumo de energía gracias a la **eficiencia sostenida** que se consigue al desconectar módulos cuando el VE necesita menos potencia de carga.

- Su **arquitectura modular** permite un escalado de potencia (p. ej. de 25kW a 50kW), una solución flexible cuando aumenten las necesidades de las baterías del futuro.

- Ofrece un **concepto de cuidado del conector** único al incorporar el bloqueo de la pistola y el diseño flotante del cable, que se traduce en menor riesgo de rotura (es decir, menor gasto de explotación y mayor durabilidad).

- Su **puerta frontal con llave** permite un fácil acceso al interior y una reducción de los gastos de explotación ya que la instalación y los servicios (preventivos / correctivos) son más rápidos. Además, es posible instalar el cargador junto a una pared, optimizando el espacio disponible.

- Posibilidad de configurarse como Máster para la solución master-slave (pág. 24).

- Disponible la versión 480 V para México y otros países de América Latina.

Para el **Usuario**

- Su **pantalla de color táctil de 8 pulgadas** no sólo proporciona claras instrucciones de carga (p. ej. una posición incorrecta del VE para iniciar la carga) y el estado del conector (p. ej. punto de recarga reservado), sino que también permite al usuario seleccionar el idioma entre varios.

- La satisfacción del usuario también se incrementa gracias a su **luz de cortesía** integrada que facilita la localización de punto de recarga en zonas oscuras y la lectura de las instrucciones del operador.

- También se ha considerado la **accesibilidad para personas con discapacidad** cumpliendo con las normas internacionales relativas a la altura de los conectores/pantalla, que facilitan su funcionamiento.

- **Sistema de pago *contactless* integrado:** Ofrece una experiencia de pago con tarjeta fácil, intuitiva y sin contacto.

Serie **Raption 50**

Especificaciones generales

Alimentación AC	3P + N + PE
Tensión AC	400V AC +/- 10%
Factor de potencia	>0,98
Eficiencia	95 % a potencia nominal
Frecuencia	50 / 60 Hz
Protección eléctrica de entrada	Desconexión del interruptor principal
Protecciones contra sobrecargas	MCB
Protección contra corriente diferencial	RCD Tipo B
Comunicaciones	Ethernet 10/100BaseTX
Protocolo	OCPP 1.5 o OCPP 1.6 J
Cumplimiento	CE / Combo-2 (DIN 70121; ISO15118) IEC 61851-1; IEC 61851-23; IEC 61851-21-2
	Compatible con CHAdeMO
Grado de protección de la envolvente	IP54 / IK10
Material estructura	Acero inoxidable
Temperatura de función	-30 ºC hasta +50 ºC
Temperatura de almacenamiento	-40 ºC hasta +60 ºC
Humedad máxima	5 % hasta 95 % sin condensación
Protección del conector	Sistema de bloqueo
Sistema RFID	ISO / IEC14443-1/2/3 MIFARE Classic
Pantalla HMI	8" color, táctil y antivandálica
Limitación de potencia de salida	DC & AC por software

Longitud del cable DC CCS	3 metros
Longitud del cable DC CHAdeMO	3 metros
Longitud del cable AC	3 metros
Baliza indicadora	Indicadores de colores RGB
Dimensiones	355x940x1800 mm (sin cable)
Peso	235 kg
Sistema de refrigeración	Ventiladores de refrigeración de aire
Nivel sonoro	< 55 dBA
Medidor AC	Cumple con el EN 50470-1 y EN 50470-3 (MID estándares Europeos) o IEC 62052-11
Conexión inalámbrica EU	4G LTE/WiFi Hotspot/GPRS/GSM
Dispositivos Opcionales	
Conexión inalámbrica	**LATAM/APAC**/4G LTE/GPRS/GSM
Protección contra sobrecargas	Protector contra sobretensiones transitorias de cuatro polos IEC 61643-1 (clase II)
Longitud de cable	5.5m (todos los cables)
Protección antivandálica del conector	CHAdeMO, CCS (bloqueo mecánico del conector)
Socket Tipo 2	Obturador
Versión de 25 kW en corriente continua	Potencia de salida de 25 kW en corriente continua. Cable fijo
Network hub	Switch TCP ethernet 8 puertos
	Switch TCP ethernet 12 puertos
Extensión RFID	Legic Advant / Legic Prime ISO 15693/ISO 18092. Sony FeliCa
Pago con contactless*	Terminal de pago con tarjeta de crédito integrado

* Preguntar por disponibilidad

Especificaciones por modelo

Modelos	CCS	CCS T2C32	CCS T2S32
Corriente máxima de entrada AC	76 A (38 A*)	108 A (70 A*)	108 A (70 A*)
Potencia aparente	53 kVA (26 kVA*)	75 kVA (48 kVA*)	75 kVA (48 kVA*)
Potencia máxima de salida	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
Rango de tensión	DC: 50 - 500 V	DC: 50 - 500 V AC: 400 V	DC: 50 - 500 V AC: 400 V
Intensidad máxima de salida	DC: 125 A (63 A*)	DC: 125A AC: 32 A	DC: 125A AC: 32 A
Conexión	CCS 2	CCS 2 Tipo 2 Cable	CCS 2 Conector Tipo 2 (sistema de bloqueo)

Modelos	CCS CHA	CCS CHA T2S32	CCS CHA T2C32	CCS CHA T2C63
Corriente máxima de entrada AC	76 A (38 A*)	108 A (70 A*)	108 A (70 A*)	138 A (101 A*)
Potencia aparente	53 kVA (26 kVA*)	75 kVA (48 kVA*)	75 kVA (48 kVA*)	96 kVA (70 kVA*)
Potencia máxima de salida	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
Rango de tensión	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
Intensidad máxima de salida	DC: 125 A	DC: 125 A AC: 32 A	DC: 125 A AC: 32 A	DC: 125 A (63 A*) AC: 63 A
Conexión	CCS 2 - JEVS G105	CCS 2 - JEVS G105 Socket Tipo 2 (sistema de bloqueo)	CCS 2 - JEVS G105 Tipo 2 Cable	CCS 2 - JEVS G105 Tipo 2 Cable

* Versión de 25 kW

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	**DC cable length CCS**	3 metres
AC Voltage	400V AC +/- 10%	**DC cable length CHAdeMO**	3 metres
Power Factor	>0.98	**AC cable length**	3 metres
Efficiency	95% at nominal output power	**Light beacon**	RGB colour indicator
Frequency	50 / 60 Hz	**Dimensions (D x W x H)**	355x940x1800 mm (without cable engaged)
Electrical input protection	Main breaker disconnection	**Weight**	255 kg
Overcurrent protection	MCB	**Cooling system**	Air cooling fans
Safety protection	RCD Type B	**Operational noise level**	< 55 dB
Network connection	Ethernet 10/100BaseTX	**AC Meter**	Compliant with the EN 50470-1 and EN 50470-3 (MID European standards) or IEC 62052-11
Interface protocol	OCPP 1.5 / 1.6J, HW ready for update to OCPP 2.0	**Wireless Communication EU**	4G LTE/WiFi Hotspot/GPRS/GSM
Compliance	CE / Combo-2 (DIN 70121; ISO15118) IEC 61851-1; IEC 61851-23; IEC 61851-21-2	**Optional devices**	
	CHAdeMO compatible	**Wireless Communication**	LATAM/APAC/4G LTE/GPRS/GSM
Enclosure rating	IP54 / IK10	**Surge protection**	Four pole transient surge protector IEC 61643-1 (class II)
Enclosure material	Stainless steel	**Cable Length**	5.5 metres (all cables)
Operating temperature	-30 ℃ to +50 ℃	**CHAdeMo cable upgrade**	200 A (100 kW)
Storage temperature	-40 ℃ to +60 ℃	**Anti-vandal connector protection**	CHAdeMO, CCS (mechanical connector locking)
Operating humidity	5% to 95% Non-condensing	**Type 2 charging socket**	Shutter
Socket protection	Locking System	**50 kW DC version**	Power output DC of 50 kW
RFID Reader	ISO / IEC14443-1/2/3 MIFARE Classic	**Network hub**	Switch TCP ethernet 8 ports
Display HMI	8" anti-vandal colour touchscreen	**RFID Extension**	Legic Advant / Legic Prime ISO 15693/ISO 18092. Sony FeliCa
Power limit control	DC & AC by software	**Contactless payment***	Integrated credit card payment terminal

* 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 T2C32	CCS CHA T2S32
Maximum AC input current	192 A	192 A
Required power supply capacity	132 kVA	132 kVA
Maximum output power	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 AC: 400 V	DC: 150 - 920 V AC: 400 V
Maximum output current	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 Type 2 Tethered cable	CCS 2 - JEVS G105 Type 2 Socket (Lock system)

Raption 150 Compact

The perfect balance between power, compact design and reliability

Application

The Raption 150 Compact perfectly adapts to different scenarios in which EV charging time is more paramount to the end user, such as service stations and rest areas on expressways, charging areas at shopping centres, professional car fleets and city bus fleets, among others.

Concept design

Designed to solve the main problems identified by users and operators in relation to fast-charging, the Raption 150 Compact uses the latest modular power technology. Another key feature is its sophisticated, flexible, slim and robust outer design, making it ideal for any site, from the most elegant urban areas to industrial zones.

Product highlights

For the **Operator / Owner**

- Its **modular power** technology ensures it is highly reliable and reduces costs, as it can continue charging even if one of the power modules breaks down.

- It reduces energy consumption and operating costs thanks to **constant high efficiency**, as power modules can be shut down when the EV demands less charging power.

- The **modular architecture** of this charger means it can be scaled up from 100 to 150 kW to meet the increasing demands of batteries.

- Its unique **connector protection** concept, with a locking function (optional) and floating cable design, reduces the risk of breakage, resulting in higher uptime and lower operating costs.

- The **lockable double door at the front** facilitates maintenance and repairs access, and allows to be installed next to a wall.

- The system can be **set as a Master** in the Master-Satellite solution.

- Includes **EMC class B** device for use in the residential areas (optional).

For the **User**

- Its **8-inch anti-vandal colour touchscreen** can be read in daylight, not only displaying clear charging instructions and the operational status of the charger, but also allowing users to select the language.

- The user experience is improved thanks to the **built-in courtesy light**, which makes it easier to find the charging station and helps users to read the operating instructions in dark areas.

- The **height of the connectors and the screen** are in compliance with international standards to help people with reduced mobility.

- Its **built-in payment terminal** (optional) offers a very easy and intuitive solution that will improve the user experience. It will not be necessary to be a member on any platform: simply wave the card and pay.

- The Raption 150 Compact can **split the available power between two vehicles** (for example, 75 kW + 75 kW). This makes it possible to use the maximum power and adapt to new market demands, where vehicles are being equipped with larger and larger batteries.

Raption 150 Compact *series*

General specifications

AC power supply	3P + N + PE
AC voltage	400 V AC +/- 10%
Maximum AC input current	260 A
Power supply capacity	160 kVA
Power factor	>0.98
Efficiency	95% at nominal power
Frequency	50 / 60 Hz
Electrical input protection	MCCB
Overload protection	MCB
Differential current protection	Type B RCD
Connections	Ethernet 10/100BaseTX
Interface protocol	OCPP 1.5 / OCPP 1.6J SM
Compliance	CE / Combo-2 (DIN 70121; ISO15118) IEC 61851-1; IEC 61851-23; IEC 61851-21-2
	CHAdeMO compatible
Enclosure rating	IP54 / IK10
Structure material	Stainless steel
Operating temperature	-30 ℃ to +50 ℃
Storage temperature	-40 ℃ to +60 ℃
Operating humidity	5% to 95% non-condensing
RFID Reader	ISO / IEC14443-1/2/3 MIFARE Classic
HMI screen	8" anti-vandal colour touchscreen

Power limit control	By software
Cable length	4 metres (CCS, CHAdeMO)
Light beacon	RGB colour indicator
Dimensions (D x W x H)	550 x 1140 x 1910 mm (without cable)
Weight	450 kg
Cooling system	Air cooling fans
Noise level	<55 dB
AC meter	Compliant with 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
Overload protection	Four-pole transient overvoltage protector IEC 61643-1 (class II)
Cable length	5.5 metres (all cables)
Anti-vandal connector protection	CHAdeMO, CCS (mechanical connector locking)
Network hub	Switch TCP ethernet 8 ports
RFID extension	Legic Advant / Legic Prime ISO 15693/ISO 18092. Sony FeliCa
Contactless payment	Built-in credit card payment terminal
EMC Class B	IEC61000 EMC Filter

Model specifications

Raption 150 Compact models	CCS CCS	CCS CHA
Maximum output power	CCS: 150 kW CCS: 150 kW	CCS: 150 kW CHA: 100 kW
Voltage range	CCS: 150-920 V CCS: 150-920 V	CCS: 150-920 V CHA: 150-500 V
Maximum output current	CCS: 375 A CCS: 375 A	CCS: 375 A CHA: 200 A
Connection		