# RAPTION 160C CCS2-CHA

RAPTION 160C CCS2-CHA, Compact outdoor fast charging station, mode 4

Code: V17B10.

> Cable (m): 4
> Communications: Ethernet | 2xSIM 4G | Wi-Fi | GPRS | GSM
> Output type: 150-920 Vcc - 500 A - 160 kW | 150-500 Vcc - 200 A - 100 kW
> Connector type: CCS Combo 2 (FF) | JEVS G105 - CHAdeMO (AA)
> Grid type: Three-phase
> Charge mode: 4
> No. Sockets: 2

## Description

The **RAPTION 160C** is an ultra-fast charging station for electric vehicles that significantly reduces the charging time in short-term car parks, offering EV drivers a charging experience similar to that of traditional internal combustion vehicles. This model has a charging capacity of 160 kW (500 A) in Boost mode, regardless of the battery's working voltage. It also allows charging two EVs simultaneously by offering 80 kW per connector, which provides flexibility and adaptability to the charging needs of both current and future vehicles, thus anticipating market demands.

In addition to its high charging power, the device offers an excellent user experience with a design intended to help people with reduced mobility, thanks to the height of the elements and to the vehicle connection system. It has a 15" anti-vandalism touchscreen that provides a very intuitive interface to interact with the device. It also has LED indicators for the charging status, courtesy lights and the option to install a cable management system, which makes it easier to connect the vehicle charging cables. It also features a contactless payment terminal.

Like all models in the **RAPTION** range, the **RAPTION 160C** is compatible with our dynamic power management system (DLM) to regulate the charge without exceeding the contracted power of the installation. The device has an **OCPP** communication protocol to integrate it with management platforms. It can also be configured as a Master in Master-Slave solutions.

## Application

The **RAPTION 160C** is designed for situations that require charging electric vehicles in a short time, such as service stations, rest areas on motorways, as well as in settings where we fast charging solutions are desired, such as designated charging spaces in shopping centres, charging hubs, fleets of professional vehicles, charging trucks and fleets of urban buses, etc.

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Quick outdoor charging station

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## Specifications

### AC power supply

| | |
|---|---|
| Consumption | 172 kVA |
| Input intensity | 276 A |
| Efficiency | 96% |
| Power factor | > 0,99 |
| Frequency | 50 / 60 Hz |
| Type of network | 3P + N + PE |
| Nominal voltage | 400 V ~ (± 10 %) |

### Electrical characteristics

| | |
|---|---|
| Charging mode | Mode 4 |
| No. of charges | 2 |

### Mechanical characteristics

| | |
|---|---|
| Size (mm) width x height x depth | 1235 x 1910 x 635 (mm) |
| Envelope | Stainless steel |
| Noise | < 70 dB |
| Fastening | Ground |
| Ventilation | Air cooling fans |
| Weight (kg) | 545 |

### Environmental characteristics

| | |
|---|---|
| Protection class | IP 54 / IK10 |
| Relative humidity (without condensation) | 5 … 95 % |
| Storage temperature | -40 … +60 °C |
| Working temperature | -30 … +50 °C |

### Communication Network

| | |
|---|---|
| Protocol | OCPP 1.6J / 2.0 HW Ready |
| Technology / Type | Ethernet 10/100 Base TX (TCP/IP) |

### User interface

| | |
|---|---|
| RFID (Radio-Frequency Identification) | NFC, ISO/IEC 14443A (MIFARE Classic, MIFARE DESFire EV1) |
| LED | Charging indicator and courtesy lighting |
| Display type | 15" TFT touchscreen anti-vandalism display |

### Standards

| | |
|---|---|
| Standards | IEC 61851-1, IEC 61851-23, IEC 61851-21-2, IEC 61851-24, IEC 62196-1, IEC 62196-2, IEC 62196-3, Compatible with CHAdeMO, Meets the CCS specification, DIN |

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70121. ISO 15118 ready, Directives: 2014/53/EU, 2014/30/EU, 2014/35/EU, Modem 4G complies with CE/RED, Compliant with RoHS 2011/65/EU-2017/2102, Meter complies with 2014/32/EU

## Features / performance

| | |
|---|---|
| Energy measurement | Meter MID Class 1, EN 50470-9 |
| Optional | 4-pole transient overvoltages (IEC 61643-11 Class II)<br>Contactless payment system: Redsys platform<br>Contactless payment system: Payter platform<br>Compatibility extension RFID Legic: NFC, ISO/IEC 14443A/B, ISO/IEC 15693, ISO/IEC 18092, (Legic Advant, Legic Prime, Sony FeliCA, Calypso)<br>MCCB in power supply |

## Protection

| | |
|---|---|
| Element | Isolation monitoring device Magneto-thermal: tripping curve C |

## Radio communication

| | |
|---|---|
| Technology / Type | 4G / GPRS / GSM Modem |

## Output 1

| | |
|---|---|
| Maximum current | 500 A |
| Maximum power | 160 kW |
| Voltage range | 150-920 Vcc |
| Connector type | CCS Combo 2 (FF) (Cable length 4m) |
| Network type | DC |

## Output 2

| | |
|---|---|
| Maximum current | 200 A |
| Maximum power | 100 kW |
| Voltage range | 150...500 Vcc |
| Connector type | CHAdeMO (AA) (Cable length 3,5m) |
| Network type | DC |

## RAPTION 160C

160-kW compact, fast-charging stations

| CODE | TYPE | Output type | Connector type | Grid type | Communications | Cable (m) | Connector lock | Cable manegement |
|---|---|---|---|---|---|---|---|---|
| V17B00. | RAPTION 160C CCS2-CCS2 | 150-920 Vcc - 500 A - 160 kW\|<br>150-920 Vcc - 500 A - 160 kW | CCS Combo 2 (FF)\| CCS Combo 2 (FF) | Three-phase | Ethernet \| 2xSIM 4G \| Wi-Fi \| GPRS \| GSM | 4 | | |
| V17B01. | RAPTION 160C CCS2-CCS2 BC | 150-920 Vcc - 500 A - 160 kW\|<br>150-920 Vcc - 500 A - 160 kW | CCS Combo 2 (FF)\| CCS Combo 2 (FF) | Three-phase | Ethernet \| 2xSIM 4G \| Wi-Fi \| GPRS \| GSM | 4 | 1 | |
| V17B02. | RAPTION 160C CCS2-CCS2 5M | 150-920 Vcc - 500 A - 160 kW\|<br>150-920 Vcc - 500 A - 160 kW | CCS Combo 2 (FF)\| CCS Combo 2 (FF) | Three-phase | Ethernet \| 2xSIM 4G \| Wi-Fi \| GPRS \| GSM | 5.5 | | |
| V17B03. | RAPTION 160C CCS2-CCS2 BC-5M | 150-920 Vcc - 500 A - 160 kW\|<br>150-920 Vcc - 500 A - 160 kW | CCS Combo 2 (FF)\| CCS Combo 2 (FF) | Three-phase | Ethernet \| 2xSIM 4G \| Wi-Fi \| GPRS \| GSM | 5.5 | 1 | |

# RAPTION 160C CCS2-CHA

Quick outdoor charging station

Code: V17B10.

| CODE | TYPE | Output type | Connector type | Grid type | Communications | Cable (m) | Connector lock | Cable manegement |
|------|------|-------------|----------------|-----------|----------------|-----------|----------------|------------------|
| V17B06. | RAPTION 160C CCS2-CCS2 5M-CM | 150-920 Vcc - 500 A - 160 kW\|<br>150-920 Vcc - 500 A - 160 kW | CCS Combo 2 (FF)\| CCS Combo 2 (FF) | Three-phase | Ethernet \| 2xSIM 4G \| Wi-Fi \| GPRS \| GSM | 5.5 | | 1 |
| V17B07. | RAPTION 160C CCS2-CCS2 BC-5M-CM | 150-920 Vcc - 500 A - 160 kW\|<br>150-920 Vcc - 500 A - 160 kW | CCS Combo 2 (FF)\| CCS Combo 2 (FF) | Three-phase | Ethernet \| 2xSIM 4G \| Wi-Fi \| GPRS \| GSM | 5.5 | 1 | 1 |
| V17B10. | RAPTION 160C CCS2-CHA | 150-920 Vcc - 500 A - 160 kW\|<br>150-500 Vcc - 200 A - 100 kW | CCS Combo 2 (FF)\| JEVS G105 - CHAdeMO (AA) | Three-phase | Ethernet \| 2xSIM 4G \| Wi-Fi \| GPRS \| GSM | 4 \| 3.5 | | |
| V17B11. | RAPTION 160C CCS2-CHA BC | 150-920 Vcc - 500 A - 160 kW\|<br>150-500 Vcc - 200 A - 100 kW | CCS Combo 2 (FF)\| JEVS G105 - CHAdeMO (AA) | Three-phase | Ethernet \| 2xSIM 4G \| Wi-Fi \| GPRS \| GSM | 4 \| 3.5 | 1 | |
| V17B12. | RAPTION 160C CCS2-CHA 5M | 150-920 Vcc - 500 A - 160 kW\|<br>150-500 Vcc - 125 A - 62,5 kW | CCS Combo 2 (FF)\| JEVS G105 - CHAdeMO (AA) | Three-phase | Ethernet \| 2xSIM 4G \| Wi-Fi \| GPRS \| GSM | 5.5 | | |
| V17B13. | RAPTION 160C CCS2-CHA BC-5M | 150-920 Vcc - 500 A - 160 kW\|<br>150-500 Vcc - 125 A - 62,5 kW | CCS Combo 2 (FF)\| JEVS G105 - CHAdeMO (AA) | Three-phase | Ethernet \| 2xSIM 4G \| Wi-Fi \| GPRS \| GSM | 5.5 | 1 | |
| V17B16. | RAPTION 160C CCS2-CHA 5M-CM | 150-920 Vcc - 500 A - 160 kW\|<br>150-500 Vcc - 125 A - 62,5 kW | CCS Combo 2 (FF)\| JEVS G105 - CHAdeMO (AA) | Three-phase | Ethernet \| 2xSIM 4G \| Wi-Fi \| GPRS \| GSM | 5.5 | | 1 |
| V17B17. | RAPTION 160C CCS2-CHA BC-5M-CM | 150-920 Vcc - 500 A - 160 kW\|<br>150-500 Vcc - 125 A - 62,5 kW | CCS Combo 2 (FF)\| JEVS G105 - CHAdeMO (AA) | Three-phase | Ethernet \| 2xSIM 4G \| Wi-Fi \| GPRS \| GSM | 5.5 | 1 | 1 |

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## Dimensions