


# RAPTION 90C CCS2-CCS2 5M

RAPTION 90C CCS2-CCS2 5M, Compact outdoor fast charging station

Code: V17D02.

> Cable (m): 5.5
> Communications: Ethernet | 2xSIM 4G | Wi-Fi | GPRS | GSM
> Output type: 150-920 Vcc · 266 A · 90 kW | 150-920 Vcc · 266 A · 90 kW
> Connector type: CCS Combo 2 (FF) | CCS Combo 2 (FF)
> Grid type: Three-phase
> Charge mode: 4
> No. Sockets: 2
> Cable manegement: 0
> Connector lock: 0

## Description

The **RAPTION 90C** is a fast charging station for electric vehicles that significantly reduces charging times in short-term car parks. This model has a charging capacity of 90 kW (266 A) in Boost mode, regardless of the battery's working voltage. It also allows charging two EVs simultaneously by offering 45 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 90C** is compatible with our dynamic load management (DLM) system to regulate the charge without exceeding the contracted power of the installation. The device has an OCPP communications protocol to integrate it with management platforms. It can also be configured as a Master in Master-Slave solutions.

## Application

The **RAPTION 90C** 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 fast charging solutions are desired, such as designated charging spaces in shopping centres, charging hubs, fleets of professional vehicles, etc.




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## Specifications

### AC power supply

| | |
|---|---|
| Consumption | 95 kVA |
| Input intensity | 152 A |
| Power factor | > 0,99 |
| Frequency | 50 / 60 Hz |
| Type of network | 3PH + N + PE |
| Nominal voltage | 400 V ~ (± 10 %) |

### Electrical characteristics

| | |
|---|---|
| Charging mode | Mode 4 |
| No. of charges | 2 |
| Efficiency | 96% |

### Mechanical characteristics

| | |
|---|---|
| Size (mm) width x height x depth | 940 x 1810 x 425 (mm) |
| Envelope | Stainless steel |
| Thermal management | Air cooling fans |
| Noise | < 65 dB |
| Fastening | Ground |
| Weight (kg) | 300 |

### Environmental characteristics

| | |
|---|---|
| Protection class | IP 54 / IK10 |
| Relative humidity (without condensation) | 5 ... 95 % |
| Storage temperature | -40 ... +70 °C |
| Operating temperature | -30 ... +55 °C |

### Standards

| | |
|---|---|
| Certifications | CE; IEC 61851-1; IEC 61851-23; IEC 61851-21-2; CCS (DIN 70121;ISO 15118) |
| Standards | IEC 61851-1; IEC 61851-23; IEC 61851-21-2; CCS (DIN 70121;ISO 15118); EN 18031-1:2024 |

### Communication Network

| | |
|---|---|
| Protocol | OCPP 1.6J / 2.0.1 HW Ready |
| Technology / Interface | 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 |

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| | |
|---|---|
| Display type | 15" TFT touchscreen anti-vandalism display |

**Features / performance**

| | |
|---|---|
| Energy measurement | MID Class B meter, EN 50470-3 |
| Optional | 4-pole transient overvoltages (IEC 61643-11 Class II)<br>Local Payment Terminal - Ingenico Self2000 (Redsys)<br>Local/Cloud Payment Terminal - Payter Apollo<br>Cloud Payment Terminal - PAX IM30<br>Cloud Payment Terminal - Castles S1U2<br>RFID Legic Compatibility Extension: NFC, ISO/IEC 14443A/B, ISO/IEC 15693, ISO/IEC 18092, (Legic Advant, Legic Prime, Sony FeliCA, Calypso)<br>Circuit breaker at power input |

**Protection**

| | |
|---|---|
| Element | Isolation monitoring device |

**Thermal-magnetic protection**

| | |
|---|---|
| Trip curve, Type | Curva C |

**Radio communication**

| | |
|---|---|
| Technology / Type | Dual 4G modem / WiFi access point / GPRS / GSM |

**Output 1**

| | |
|---|---|
| Maximum current | 266 A |
| Maximum power | 90 kW |
| Voltage range | 150-920 Vcc |
| Connector type | CCS Combo 2 (FF) (Cable length 5,5 m) |
| Network type | DC |

**Output 2**

| | |
|---|---|
| Maximum current | 266 A |
| Maximum power | 90 kW |
| Voltage range | 150-920 Vcc |
| Connector type | CCS Combo 2 (FF) (Cable length 5,5 m) |
| Network type | DC |

**RAPTION 90C**

90-kW compact, fast-charging stations

| CODE | TYPE | No. Sockets | Output type | Connector type | Cable manegement | Connector lock | Cable (m) |
|---|---|---|---|---|---|---|---|




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| CODE | TYPE | No. Sockets | Output type | Connector type | Cable manegement | Connector lock | Cable (m) |
|---|---|---|---|---|---|---|---|
| V17D00. | RAPTION 90C CCS2-CCS2 | 2 | 150-920 Vcc · 266 A · 90 kW \| 150-920 Vcc · 266 A · 90 kW | CCS Combo 2 (FF) \| CCS Combo 2 (FF) | 0 | 0 | 4 |
| V17D01. | RAPTION 90C CCS2-CCS2 BC | 2 | 150-920 Vcc · 266 A · 90 kW \| 150-920 Vcc · 266 A · 90 kW | CCS Combo 2 (FF) \| CCS Combo 2 (FF) | 0 | 1 | 4 |
| V17D02. | RAPTION 90C CCS2-CCS2 5M | 2 | 150-920 Vcc · 266 A · 90 kW \| 150-920 Vcc · 266 A · 90 kW | CCS Combo 2 (FF) \| CCS Combo 2 (FF) | 0 | 0 | 5.5 |
| V17D03. | RAPTION 90C CCS2-CCS2 BC-5M | 2 | 150-920 Vcc · 266 A · 90 kW \| 150-920 Vcc · 266 A · 90 kW | CCS Combo 2 (FF) \| CCS Combo 2 (FF) | 0 | 1 | 5.5 |
| V17D06. | RAPTION 90C CCS2-CCS2 5M-CM | 2 | 150-920 Vcc · 266 A · 90 kW \| 150-920 Vcc · 266 A · 90 kW | CCS Combo 2 (FF) \| CCS Combo 2 (FF) | 1 | 0 | 5.5 |
| V17D07. | RAPTION 90C CCS2-CCS2 BC-5M-CM | 2 | 150-920 Vcc · 266 A · 90 kW \| 150-920 Vcc · 266 A · 90 kW | CCS Combo 2 (FF) \| CCS Combo 2 (FF) | 1 | 1 | 5.5 |
| V17D30. | RAPTION 90C CCS2-CCS2-T2S32 | 3 | 150-920 Vcc · 266 A · 90 kW \| 150-920 Vcc · 266 A · 90 kW \| 400 Vca - 32 A - 22 kW | CCS Combo 2 (FF) \| CCS Combo 2 (FF) \| Type 2 Socket | 0 | 0 | 4 |
| V17D31. | RAPTION 90C CCS2-CCS2-T2S32 BC | 3 | 150-920 Vcc · 266 A · 90 kW \| 150-920 Vcc · 266 A · 90 kW \| 400 Vca - 32 A - 22 kW | CCS Combo 2 (FF) \| CCS Combo 2 (FF) \| Type 2 Socket | 0 | 1 | 4 |
| V17D32. | RAPTION 90C CCS2-CCS2-T2S32 5M | 3 | 150-920 Vcc · 266 A · 90 kW \| 150-920 Vcc · 266 A · 90 kW \| 400 Vca - 32 A - 22 kW | CCS Combo 2 (FF) \| CCS Combo 2 (FF) \| Type 2 Socket | 0 | 0 | 5.5 |
| V17D33. | RAPTION 90C CCS2-CCS2-T2S32 BC-5M | 3 | 150-920 Vcc · 266 A · 90 kW \| 150-920 Vcc · 266 A · 90 kW \| 400 Vca - 32 A - 22 kW | CCS Combo 2 (FF) \| CCS Combo 2 (FF) \| Type 2 Socket | 0 | 1 | 5.5 |
| V17D36. | RAPTION 90C CCS2-CCS2-T2S32 5M-CM | 3 | 150-920 Vcc · 266 A · 90 kW \| 150-920 Vcc · 266 A · 90 kW \| 400 Vca - 32 A - 22 kW | CCS Combo 2 (FF) \| CCS Combo 2 (FF) \| Type 2 Socket | 1 | 0 | 5.5 |
| V17D37. | RAPTION 90C CCS2-CCS2-T2S32 BC-5M-CM | 3 | 150-920 Vcc · 266 A · 90 kW \| 150-920 Vcc · 266 A · 90 kW \| 400 Vca - 32 A - 22 kW | CCS Combo 2 (FF) \| CCS Combo 2 (FF) \| Type 2 Socket | 1 | 1 | 5.5 |
| V17D40. | RAPTION 90C CCS2-T2S32 | 2 | 150-920 Vcc · 266 A · 90 kW \| 400 Vca - 32 A - 22 kW | CCS Combo 2 (FF) \| Type 2 Socket | 0 | 0 | 4 |
| V17D41. | RAPTION 90C CCS2-T2S32 BC | 2 | 150-920 Vcc · 266 A · 90 kW \| 400 Vca - 32 A - 22 kW | CCS Combo 2 (FF) \| Type 2 Socket | 0 | 1 | 4 |
| V17D42. | RAPTION 90C CCS2-T2S32 5M | 2 | 150-920 Vcc · 266 A · 90 kW \| 400 Vca - 32 A - 22 kW | CCS Combo 2 (FF) \| Type 2 Socket | 0 | 0 | 5.5 |
| V17D43. | RAPTION 90C CCS2-T2S32 BC-5M | 2 | 150-920 Vcc · 266 A · 90 kW \| 400 Vca - 32 A - 22 kW | CCS Combo 2 (FF) \| Type 2 Socket | 0 | 1 | 5.5 |
| V17D46. | RAPTION 90C CCS2-T2S32 5M-CM | 2 | 150-920 Vcc · 266 A · 90 kW \| 400 Vca - 32 A - 22 kW | CCS Combo 2 (FF) \| Type 2 Socket | 1 | 0 | 5.5 |
| V17D47. | RAPTION 90C CCS2-T2S32 BC-5M-CM | 2 | 150-920 Vcc · 266 A · 90 kW \| 400 Vca - 32 A - 22 kW | CCS Combo 2 (FF) \| Type 2 Socket | 1 | 1 | 5.5 |

15" color TFT touch screen vandal resistant, magnetothermal protection with C trip curve. Insulation monitoring device. Integrated MID energy measurement. RFID reader for identification and activation recharge. Data storage, Ethernet communications, dual 4G modem communications; OCPP 1.6J/2.0 HW ready communications protocol. Weight: 300 kg. IP54 stainless steel enclosure - IK10. Dimensions: 425 x 990 x 1810 mm (without cable). Cable lengths 4 m or 5.5 m (depending on the RAPTION xxxC model ... -CM)



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## Dimensions