



## RAPTION 160C CCS2

RAPTION 240C CCS2-CCS2, Compact outdoor fast charging station, mode 4

Code: V17B20.

- > Cable (m): 4
- > Communications: Ethernet | 2xSIM 4G | Wi-Fi | GPRS | GSM
- > Output type: 150-920 Vcc - 500 A - 240 kW | 150-920 Vcc - 500 A - 240 kW
- > Connector type: CCS Combo 2 (FF)
- > Grid type: Three-phase
- > Charge mode: 4
- > No. Sockets: 1

### 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 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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## Specifications

### AC power supply

|                 |                  |
|-----------------|------------------|
| Consumption     | 172 kVA          |
| Input intensity | 276 A            |
| 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 | 1      |
| Efficiency     | 96%    |

### Mechanical characteristics

|                                  |                        |
|----------------------------------|------------------------|
| Size (mm) width x height x depth | 1235 x 1910 x 635 (mm) |
| Envelope                         | Stainless steel        |
| Thermal management               | Air cooling fans       |
| Noise                            | < 65 dB                |
| Fastening                        | Ground                 |

### Environmental characteristics

|                                          |                |
|------------------------------------------|----------------|
| Protection class                         | IP 54 / IK10   |
| Relative humidity (without condensation) | 5 ... 95 %     |
| Storage temperature                      | -40 ... +70 °C |
| Working 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, IEC 61851-24, IEC 62196-1, IEC 62196-2, IEC 62196-3, Compatible with CHAdeMO, Meets the CCS specification, DIN 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 |

### Communication Network

|                        |                                  |
|------------------------|----------------------------------|
| Protocol               | OCPP 1.6J / 2.0 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) |
|---------------------------------------|----------------------------------------------------------|



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|              |                                            |
|--------------|--------------------------------------------|
| LED          | Charging indicator and courtesy lighting   |
| 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>Contactless payment system: Ingenico Sefi2000 (Redsys)<br>Contactless payment system: Payter Apollo<br>Contactless payment system: PAX IM30<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 | 4G / GPRS / GSM Modem |
|-------------------|-----------------------|

### Output 1

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

### RAPTION 160C

160-kW compact, fast-charging stations

| CODE    | TYPE                    | No. Sockets | Output type                                                    | Connector type   | Cable management | Connector lock | Cable (m) |
|---------|-------------------------|-------------|----------------------------------------------------------------|------------------|------------------|----------------|-----------|
| V17B21. | RAPTION 160C CCS2 BC    | 1           | 150-920 Vcc - 500 A - 160 kW  <br>150-920 Vcc - 500 A - 160 kW | CCS Combo 2 (FF) | 0                | 1              | 4         |
| V17B22. | RAPTION 160C CCS2 5M    | 1           | 150-920 Vcc - 500 A - 160 kW  <br>150-920 Vcc - 500 A - 160 kW | CCS Combo 2 (FF) | 0                | 0              | 5.5       |
| V17B23. | RAPTION 160C CCS2 BC-5M | 1           | 150-920 Vcc - 500 A - 160 kW  <br>150-920 Vcc - 500 A - 160 kW | CCS Combo 2 (FF) | 0                | 1              | 5.5       |
| V17B26. | RAPTION 160C CCS2 5M-CM | 1           | 150-920 Vcc - 500 A - 160 kW  <br>150-920 Vcc - 500 A - 160 kW | CCS Combo 2 (FF) | 1                | 0              | 5.5       |
| V17B20. | RAPTION 160C CCS2       | 1           | 150-920 Vcc - 500 A - 240 kW  <br>150-920 Vcc - 500 A - 240 kW | CCS Combo 2 (FF) | 0                | 0              | 4         |



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| CODE    | TYPE                            | No. Sockets | Output type                                                  | Connector type                              | Cable management | Connector lock | Cable (m) |
|---------|---------------------------------|-------------|--------------------------------------------------------------|---------------------------------------------|------------------|----------------|-----------|
| V17B27. | RAPTION 160C CCS2 BC-5M-CM      | 1           | 150-920 Vcc - 500 A - 160 kW   150-920 Vcc - 500 A - 160 kW  | CCS Combo 2 (FF)                            | 1                | 1              | 5.5       |
| V17B00. | RAPTION 160C CCS2-CCS2          | 2           | 150-920 Vcc - 500 A - 160 kW   150-920 Vcc - 500 A - 160 kW  | CCS Combo 2 (FF)   CCS Combo 2 (FF)         | 0                | 0              | 4         |
| V17B01. | RAPTION 160C CCS2-CCS2 BC       | 2           | 150-920 Vcc - 500 A - 160 kW   150-920 Vcc - 500 A - 160 kW  | CCS Combo 2 (FF)   CCS Combo 2 (FF)         | 0                | 1              | 4         |
| V17B02. | RAPTION 160C CCS2-CCS2 5M       | 2           | 150-920 Vcc - 500 A - 160 kW   150-920 Vcc - 500 A - 160 kW  | CCS Combo 2 (FF)   CCS Combo 2 (FF)         | 0                | 0              | 5.5       |
| V17B03. | RAPTION 160C CCS2-CCS2 BC-5M    | 2           | 150-920 Vcc - 500 A - 160 kW   150-920 Vcc - 500 A - 160 kW  | CCS Combo 2 (FF)   CCS Combo 2 (FF)         | 0                | 1              | 5.5       |
| V17B06. | RAPTION 160C CCS2-CCS2 5M-CM    | 2           | 150-920 Vcc - 500 A - 160 kW   150-920 Vcc - 500 A - 160 kW  | CCS Combo 2 (FF)   CCS Combo 2 (FF)         | 1                | 0              | 5.5       |
| V17B07. | RAPTION 160C CCS2-CCS2 BC-5M-CM | 2           | 150-920 Vcc - 500 A - 160 kW   150-920 Vcc - 500 A - 160 kW  | CCS Combo 2 (FF)   CCS Combo 2 (FF)         | 1                | 1              | 5.5       |
| V17B10. | RAPTION 160C CCS2-CHA           | 2           | 150-920 Vcc - 500 A - 160 kW   150-500 Vcc - 200 A - 100 kW  | CCS Combo 2 (FF)   JEVS G105 - CHAdeMO (AA) | 0                | 0              | 4         |
| V17B11. | RAPTION 160C CCS2-CHA BC        | 2           | 150-920 Vcc - 500 A - 160 kW   150-500 Vcc - 200 A - 100 kW  | CCS Combo 2 (FF)   JEVS G105 - CHAdeMO (AA) | 0                | 1              | 4         |
| V17B12. | RAPTION 160C CCS2-CHA 5M        | 2           | 150-920 Vcc - 500 A - 160 kW   150-500 Vcc - 125 A - 62,5 kW | CCS Combo 2 (FF)   JEVS G105 - CHAdeMO (AA) | 0                | 0              | 5.5       |
| V17B13. | RAPTION 160C CCS2-CHA BC-5M     | 2           | 150-920 Vcc - 500 A - 160 kW   150-500 Vcc - 125 A - 62,5 kW | CCS Combo 2 (FF)   JEVS G105 - CHAdeMO (AA) | 0                | 1              | 5.5       |
| V17B16. | RAPTION 160C CCS2-CHA 5M-CM     | 2           | 150-920 Vcc - 500 A - 160 kW   150-500 Vcc - 125 A - 62,5 kW | CCS Combo 2 (FF)   JEVS G105 - CHAdeMO (AA) | 1                | 0              | 5.5       |
| V17B17. | RAPTION 160C CCS2-CHA BC-5M-CM  | 2           | 150-920 Vcc - 500 A - 160 kW   150-500 Vcc - 125 A - 62,5 kW | CCS Combo 2 (FF)   JEVS G105 - CHAdeMO (AA) | 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, 4G dual modem communications, OCPP 1.6J/2.0 HW ready communications protocol. Weight: 575 kg. IP54 stainless steel enclosure - IK10. Dimensions: 635x1235 x1910 mm (without cable). Cable lengths 4 m or 5.5 m (depending on the RAPTION xxxC model ... -CM)