Circutor

RAPTION 160C CCS2-CCS2 5M

RAPTION 160C CCS2-CCS2 5M, Compact outdoor fast charging station, mode 4

Code: V17B02.

> Cable (m): 5.5
> Communications: Ethernet | 2xSIM 4G | Wi-Fi | GPRS | GSM
> Output type: 150-920 Vcc - 500 A - 160 kW | 150-920 Vcc - 500 A - 160 kW
> Connector type: CCS Combo 2 (FF) | CCS Combo 2 (FF)
> 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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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 50470-5
Optional	4-pole transient overvoltages (IEC 61643-11 Class II)
	Contactless payment system: Redsys platform
	Contactless payment system: Payter platform
	Compatibility extension RFID Legic: NFC, ISO/IEC 14443A/B, ISO/IEC 15693, ISO/IEC 18092, (Legic Advant, Legic Prime, Sony FeliCA, Calypso)
	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 5,5m)
Network type	DC

Output 2

Maximum current	500 A
Maximum power	160 kW
Voltage range	150-920 Vcc
Connector type	CCS Combo 2 (FF) (Cable length 5,5m)
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| 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| 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| 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| 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	

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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| 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| 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| 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| 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| 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| 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| 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| 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