Sonic One 320 CCS2-CCS2 5M

Sonic One 320 CCS2-CCS2 5M, Compact outdoor ultra-fast charging station, mode 4

Code: V18A02.

> Cable (m): 5.5
> Communications: Ethernet | 2xSIM 4G | Wi-Fi | GPRS | GSM
> Output type: 150-920 Vcc - 500 A - 320 kW | 150-920 Vcc - 500 A - 320 kW
> Connector type: CCS Combo 2 (FF) | CCS Combo 2 (FF)
> Grid type: Three-phase
> Charge mode: 4
> No. Sockets: 2

Description

The **Sonic One 320** is an ultra-fast charging station designed to significantly reduce charging times in short-stay locations, such as service stations or rest areas. With a maximum power of 320 kW (500 A) in Boost mode, it guarantees the delivery of energy without depending on the vehicle's working voltage. Its high power granularity allows dynamically adapting the charge to the specific needs of each vehicle, thus optimising the available power. For example, you can allocate 280 kW to a vehicle with low battery and 40 kW to another vehicle with lower charging requirements, thus maximising the charging point's performance. In addition, the device has been designed so it can be expanded to 400 kW, offering the possibility of adapting it to the growing needs of the market.

In addition to its performance, it offers an excellent user experience thanks to an accessible design conceived for people with reduced mobility, both due to the height of the interactive elements and to its connection system. It features a 32" anti-vandalism touchscreen that can be used as an intuitive interface and advertising medium. It also includes LED indicators for the charger status and the option of integrating a cable management system, which facilitates its use when connected.

This device is compatible with Circutor's dynamic power management system (DLM) and allows regulating the charge without exceeding the contracted power of the installation. It also has an OCPP protocol to integrate it with remote management platforms, the AutoCharge function and dual modem, and it is compatible with various methods of payment, including various types of POS terminals.

The **Sonic One 320** has been designed to function in environments with high operational requirements, combining power, flexibility, accessibility and ease of maintenance. It is a solution prepared to meet the current and future needs of electrical mobility.

Application

The **Sonic One 320** 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 ultra-fast charging solutions are desired, such as charging hubs or fleets of heavy-duty vehicles.

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Specifications

AC power supply

Consumption	340kVA
Input intensity	545 A
Power factor	> 0.99
Frequency	50 / 60 Hz
Type of network	3P + PE
Nominal voltage	400 V ~ ±10%

Electrical characteristics

Max. output intensity (A)	500 A
Charging mode	Mode 4
No. of charges	2
Efficiency	96%

Mechanical characteristics

Size (mm) width x height x depth	1000 x 2200 x 800 (mm)
Envelope	Stainless steel
Thermal management	Air cooling fans
Noise	< 65 dB
Fastening	Ground
Weight (kg)	660

Environmental characteristics

Protection class	IP55 / IK10
Relative humidity (without condensation)	5 ... 95 %
Storage temperature	-40 ... +70 °C
Working temperature	-30 ... +55 °C

Communication Network

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

Standards

Electrical safety, Maximum height (m)	≤ 2000
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, EN 18031-1

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User interface

RFID (Radio-Frequency Identification)	NFC, ISO/IEC 14443A (MIFARE Classic, MIFARE DESFire EV1)
LED	RGB color charging indicator
Display type	32" anti-vandal colour touchscreen

Features / performance

Energy measurement	DC MID counter
Optional	4-pole transient overvoltages (IEC 61643-11 Class II) Local Payment Terminal - Ingenico Self2000 (Redsys) Local/Cloud Payment Terminal - Payter Apollo Cloud Payment Terminal - PAX IM30 Cloud Payment Terminal - Castles S1U2 Compatibility extension RFID Legic: NFC, ISO/IEC 14443A/B, ISO/IEC 15693, ISO/IEC 18092, (Legic Advant, Legic Prime, Sony FeliCA, Calypso)

Protection

Element	Isolation monitoring device

Radio communication

Technology / Type	Dual Modem 4G / GPRS / GSM

Output 1

Maximum current	500 A
Maximum power	320 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	320 KW
Voltage range	150-920 Vcc
Connector type	CCS Combo 2 (FF) (Cable length 5,5m)
Network type	DC

Sonic One 320

Outdoor ultra-fast charging station 320 kW

CODE	TYPE	Output type	No. Sockets	Connector type	Grid type	Cable (m)	Communications	Cable manegement
V18A00.	Sonic One 320 CCS2-CCS2	150-920 Vcc - 500 A - 320 kW | 150-920 Vcc - 500 A - 320 kW	2	CCS Combo 2 (FF) | CCS Combo 2 (FF)	Three-phase	4	Ethernet | 2xSIM 4G | Wi-Fi | GPRS | GSM	

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V18A02.	Sonic One 320 CCS2-CCS2 5M	150-920 Vcc - 500 A - 320 kW | 150-920 Vcc - 500 A - 320 kW	2	CCS Combo 2 (FF) | CCS Combo 2 (FF)	Three-phase	5.5	Ethernet | 2xSIM 4G | Wi-Fi | GPRS | GSM	
V18A06.	Sonic One 320 CCS2-CCS2 5M-CM	150-920 Vcc - 500 A - 320 kW | 150-920 Vcc - 500 A - 320 kW	2	CCS Combo 2 (FF) | CCS Combo 2 (FF)	Three-phase	5.5	Ethernet | 2xSIM 4G | Wi-Fi | GPRS | GSM	1

32" vandal-proof FHD colour touchscreen. Insulation monitoring device. Integrated MID energy measurement. RFID reader for identification and recharge activation. Data storage, Ethernet communications, Wi-Fi, dual 4G modem communications; OCPP 1.6J / 2.0 HW ready communications protocol. Approx. weight: 660 kg. IP55 - IK10 stainless steel enclosure. Dimensions: 1000 x 2200 x 800 mm (without cable). Cable lengths 4 m or 5.5 m (depending on model SONIC ONE xxx ... -xM").

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Dimensions

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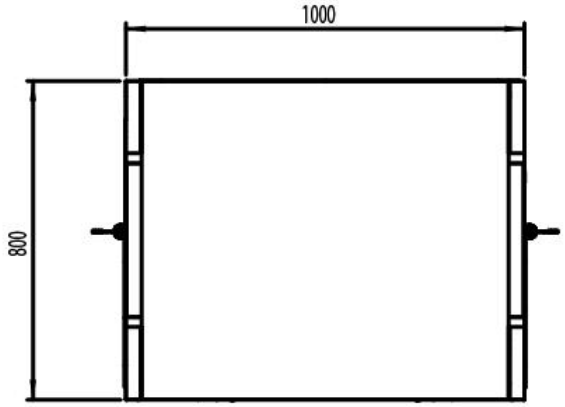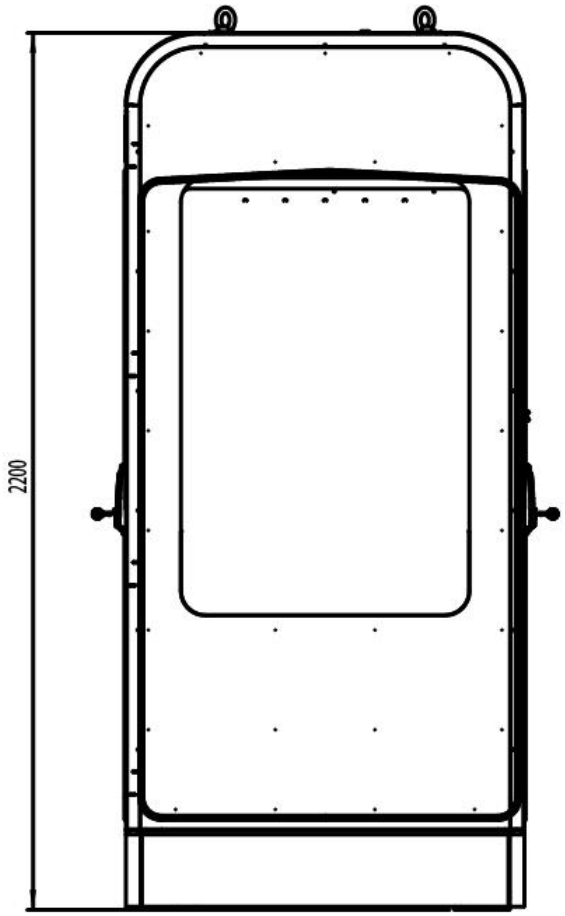
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