

# CHARX SEC-3050 - AC charging controller



1139018

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CHARX control modular, AC charging controller, with Embedded Linux system, IEC 61851-1, ISO 15118, operating mode: Stand-Alone, Client, Server, interface: Ethernet (2x), CHARX control modular system bus, MICRO-USB type C, communication protocol: OCPP 1.6J, Modbus/TCP, MQTT, Connectable peripheral devices: Energy meter, RFID, DC residual current detection, DIN rail mounting

## Commercial data

Item number	1139018
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	XWB
Product key	XWBRDA
GTIN	4063151082833
Weight per piece (including packing)	248 g
Weight per piece (excluding packing)	186 g
Customs tariff number	85371091
Country of origin	DE

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## Technical data

### Product properties

Product type	AC charging controller
Product family	CHARX control modular
Design	with Embedded Linux system
Operating mode	Stand-Alone
	Client
	Server
Charging standard	IEC 61851-1
	ISO/IEC 15118
Charging mode	Mode 3, Case B + C

### Insulation characteristics

Overvoltage category	III
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### System properties

#### IEC 61131 runtime system

Data storage system	8 GByte (eMMC)
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### Electrical properties

#### Supply

Supply voltage	12 V DC $\pm 5\%$
Supply voltage range	11.4 V DC ... 12.6 V DC
Max. current consumption	2 A (Stand-alone operation)

### Input data

#### Digital

Number of digital inputs	4
Description of the input	Digital input
Nominal input voltage $U_N$	12 V
Input voltage range U1	0 V ... 3 V (Off)
Input voltage range U2	9 V ... 15 V (On)

### Output data

#### Digital

Output name	Digital output
Number outputs	4
Maximum output voltage	$\leq 12\text{ V}$ (Low-side operation)
Maximum output current	max. 600 mA

### Connection data

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## Conductor connection

Connection method	pluggable
	Push-in technology
Conductor cross-section rigid	0.14 mm <sup>2</sup> ... 1.5 mm <sup>2</sup>
Conductor cross-section flexible	0.2 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>
Conductor cross-section AWG	24 ... 16

## Interfaces

Interface	Ethernet (2x)
	CHARX control modular system bus
	USB-C

### Ethernet

Interface	Ethernet
Connection method	RJ45 jack
Number of interfaces	2
Number of supported devices	2
Serial transmission speed	10/100 Mbps
Transmission length	100 m
Protocols supported	OCPP 1.6J
	Modbus/TCP
	MQTT
	HTTP
	HTTPS

### Others

Interface	Configuration and diagnostics
Connection method	USB type C
Number of interfaces	1
Protocols supported	RNDIS

### Others

Interface	Energy meter
Bus system	RS-485
Transmission speed range	9.6 kbps ... 115.2 kbps (Automatic setting in accordance with the selected energy meter)

### Others

Interface	RFID readers
Bus system	RS-485
Transmission speed range	9.6 kbps ... 115.2 kbps (Automatic setting in accordance with the selected RFID reader)

### Others

Interface	CHARX control modular system bus
Connection method	DIN rail bus connector

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Number of interfaces	1
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## Environmental and real-life conditions

### Ambient conditions

Degree of protection	IP20
Ambient temperature (operation)	-25 °C ... 65 °C
Ambient temperature (storage/transport)	-40 °C ... 80 °C
Permissible humidity (operation)	5 % ... 95 % (non-condensing)
Permissible humidity (storage/transport)	5 % ... 95 % (non-condensing)
Air pressure (operation)	70 kPa ... 106 kPa (up to 3000 m above mean sea level)
Air pressure (storage/transport)	58 kPa ... 106 kPa (up to 4500 m above mean sea level)

## Approvals

### Conformity/Approvals

Conformance	CE-compliant
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## Standards and regulations

### Standards

Standards/regulations	IEC 61851-1
	ISO 15118

## Mounting

Mounting type	DIN rail mounting
Assembly note	DIN rail mounting
Mounting position	any

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## Classifications

### ECLASS

ECLASS-13.0	27144703
ECLASS-15.0	27144703

### ETIM

ETIM 9.0	EC002889
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### UNSPSC

UNSPSC 21.0	39121800
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## Environmental product compliance

### EU RoHS

Fulfills EU RoHS substance requirements	Yes
Exemption	7(a), 7(c)-I

### China RoHS

Environment friendly use period (EFUP)	EFUP-50
	An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required.

### EU REACH SVHC

REACH candidate substance (CAS No.)	Lead(CAS: 7439-92-1)
SCIP	3d48fd58-8de9-4b55-af4e-aae4ec700ec7

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PHOENIX CONTACT (I) Pvt. Ltd.

A-58/2, Okhla Industrial Area, Phase - II, New Delhi-110 020

+91.1275.71420

[info@phoenixcontact.co.in](mailto:info@phoenixcontact.co.in)