

# CHARX SEC-3000 - AC charging controller



1139022

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CHARX control modular, AC charging controller, with Embedded Linux system, IEC 61851-1, 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	1139022
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	EM01
Product key	XWBBFC
GTIN	4063151086510
Weight per piece (including packing)	242.5 g
Weight per piece (excluding packing)	242 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
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 $U_1$	0 V ... 3 V (Off)
Input voltage range $U_2$	9 V ... 15 V (On)

### Output data

#### Digital

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

### Connection data

#### Conductor connection

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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	Micro-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 connectors
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
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## Mounting

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

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## Classifications

### ECLASS

ECLASS-11.0	27144703
ECLASS-12.0	27144703
ECLASS-13.0	27144703

### ETIM

ETIM 8.0	EC002889
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### UNSPSC

UNSPSC 21.0	39121800
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## Environmental product compliance

REACH SVHC	Lead 7439-92-1
China RoHS	Environmentally Friendly Use Period = 50 years
	For information on hazardous substances, refer to the manufacturer's declaration available under "Downloads"

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## Accessories

### EV-RCM-6DC-WAT - Differential current monitoring

1309697

<https://www.phoenixcontact.com/us/products/1309697>



The residual current monitoring module is used for AC and DC residual current detection in AC charging points. The higher-level safety equipment (e.g., residual current device) is protected against potential DC residual currents.

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### EV-RCM-6DC-WAT-X10 - Differential current monitoring

1309695

<https://www.phoenixcontact.com/us/products/1309695>



The residual current monitoring module is used for AC and DC residual current detection in AC charging points. The higher-level safety equipment (e.g., residual current device) is protected against potential DC residual currents.

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## EV-RFID-ELT-PCB - RFID device

1309772

<https://www.phoenixcontact.com/us/products/1309772>



CHARX control, RFID device, for connection to CHARX control modular AC charging controllers

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## EV-RFID-ELT-PCB-X10 - RFID device

1309752

<https://www.phoenixcontact.com/us/products/1309752>



CHARX control, RFID device, for connection to CHARX control modular AC charging controllers



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## EV-RFID-ELT-IP65 - RFID device

1309687

<https://www.phoenixcontact.com/us/products/1309687>

CHARX control, RFID device, for connection to CHARX control modular AC charging controllers, in housing



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## CHARX SEC JST-RCM-CBL - Cable set

1360462

<https://www.phoenixcontact.com/us/products/1360462>

CHARX control modular, Cable set, 4-pos., with plug-in contact at one end, Exclusively for connecting the EV-RCM-6DC-WAT residual current sensor, Item no.: 1309697 to modules in the CHARX control modular charging controller family, length: 0.4 m



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## ISKRA WM3M4C ENERGYMETER - Measuring instrument

1429603

<https://www.phoenixcontact.com/us/products/1429603>



Three-phase energy meter for active power measurement with direct measurement in networks of up to 400 V / 40 A, with RS-485 interface, certified in accordance with the Measuring Instruments Directive (MID) directive

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## CHARX 4,3 LCD DISPLAY - Display

1426836

<https://www.phoenixcontact.com/us/products/1426836>



LCD color display, 4.3", including preinstalled charging software for electric vehicles, micro USB port, adhesive mounting (mounting material not supplied as standard), up to 12 charging points

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## EV-T2M3SO12-3P-P-SET - Infrastructure charging socket

1164422

<https://www.phoenixcontact.com/us/products/1164422>



CHARX connect modular, Infrastructure charging socket, square, Premium, Set, with square protective cover, with temperature sensors, with LED (common cathode connection), for charging electric vehicles (EV) with alternating current (AC), Type 2, IEC 62196-2, 32 A / 480 V (AC), without single-core wires, locking actuator: 12 V, 3-pos., Rear panel mounting, M5 thread, housing: black, PHOENIX CONTACT logo

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## EV-T2M3SO12-4P-P-SET - Infrastructure charging socket

1164423

<https://www.phoenixcontact.com/us/products/1164423>



CHARX connect modular, Infrastructure charging socket, square, Premium, Set, with square protective cover, with temperature sensors, with LED (common cathode connection), for charging electric vehicles (EV) with alternating current (AC), Type 2, IEC 62196-2, 32 A / 480 V (AC), without single-core wires, locking actuator: 12 V, 4-pos., Rear panel mounting, M5 thread, housing: black, PHOENIX CONTACT logo

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## EV-T2M3SO12-3P-BL-SET - Infrastructure charging socket

1268358

<https://www.phoenixcontact.com/us/products/1268358>



CHARX connect modular, Infrastructure charging socket, square, Basic, Set, with square protective cover, with LED (common cathode connection), for charging electric vehicles (EV) with alternating current (AC), Type 2, IEC 62196-2, 32 A / 480 V (AC), without single-core wires, locking actuator: 12 V, 3-pos., Rear panel mounting, M5 thread, housing: black, PHOENIX CONTACT logo

## EV-T2M3SO12-4P-BL-SET - Infrastructure charging socket

1268355

<https://www.phoenixcontact.com/us/products/1268355>



CHARX connect modular, Infrastructure charging socket, square, Basic, Set, with square protective cover, with LED (common cathode connection), for charging electric vehicles (EV) with alternating current (AC), Type 2, IEC 62196-2, 32 A / 480 V (AC), without single-core wires, locking actuator: 12 V, 4-pos., Rear panel mounting, M5 thread, housing: black, PHOENIX CONTACT logo

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## EV-T2M3SO12-3P-B-SET - Infrastructure charging socket

1164420

<https://www.phoenixcontact.com/us/products/1164420>



CHARX connect modular, Infrastructure charging socket, square, Basic, Set, with square protective cover, for charging electric vehicles (EV) with alternating current (AC), Type 2, IEC 62196-2, 32 A / 480 V (AC), without single-core wires, locking actuator: 12 V, 3-pos., Rear panel mounting, M5 thread, housing: black, PHOENIX CONTACT logo

## EV-T2M3SO12-4P-B-SET - Infrastructure charging socket

1164417

<https://www.phoenixcontact.com/us/products/1164417>



CHARX connect modular, Infrastructure charging socket, square, Basic, Set, with square protective cover, for charging electric vehicles (EV) with alternating current (AC), Type 2, IEC 62196-2, 32 A / 480 V (AC), without single-core wires, locking actuator: 12 V, 4-pos., Rear panel mounting, M5 thread, housing: black, PHOENIX CONTACT logo

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