

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	EM01
Product key	XWBBFC
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

Data management status

Article revision	10
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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

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Connection data

Conductor connection

Connection method	pluggable
	Push-in technology
Conductor cross section rigid	0.14 mm ² ... 1.5 mm ²
Conductor cross section flexible	0.2 mm ² ... 2.5 mm ²
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
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Connection method	DIN rail bus connectors
Number of interfaces	1

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-11.0	27144703
ECLASS-13.0	27144703
ECLASS-12.0	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-10
	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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Accessories

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

1309697

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



CHARX control modular, 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.

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

1309695

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



CHARX control modular, 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

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

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

1309752

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



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

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EV-RFID-ELT-IP65 - RFID device

1309687

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



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, For connecting the EV-RCM-6DC-WAT residual current monitor, item no.: 1309697 and CHARX RFID/NFC-PCB, item no.: 1391227 to the modules of the CHARX control modular charging controller family, length: 0.4 m



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ISKRA WM3M4C ENERGYSMETER - Measuring device

1429603

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

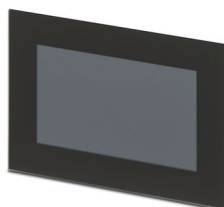


CHARX control modular, 3-phase energy meter for active power measurement with direct measurement in grids of up to 400 V/40 A, with RS-485 interface, certified in accordance with the MID directive

CHARX 4,3 LCD DISPLAY - Display

1426836

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



CHARX control modular, 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, can only be used in calibration law mode

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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

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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CHARX RFID/NFC-PCB - RFID/NFC device

1391227

<https://www.phoenixcontact.com/us/products/1391227>

CHARX control modular, RFID/NFC device, for connection to CHARX control modular AC charging controllers, with integrated LED indicator, with buzzer



CHARX RFID/NFC-PCB-X10 - RFID/NFC device

1399372

<https://www.phoenixcontact.com/us/products/1399372>

CHARX control modular, RFID/NFC device, for connection to CHARX control modular AC charging controllers, with integrated LED indicator, with buzzer



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CHARX SEC JST-RCM-CBL 100 - Cable set

1486193

<https://www.phoenixcontact.com/us/products/1486193>



CHARX control modular, Cable set, 4-pos., with plug-in contact at one end, For connecting the EV-RCM-6DC-WAT residual current monitor, item no.: 1309697 and CHARX RFID/NFC-PCB, item no.: 1391227 to the modules of the CHARX control modular charging controller family, length: 1 m

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Phoenix Contact USA
586 Fulling Mill Road
Middletown, PA 17057, United States
(+717) 944-1300
info@phoenixcon.com