

CHARX AC-DIS/150KW - AC distribution module



1342893

<https://www.phoenixcontact.com/in/products/1342893>

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CHARX power distribute, AC distribution unit for setting up DC charging stations, 19" rack mounting, output: 400 V AC...480 V AC / 54 A, 6 A



Product description

CHARX power distribute supplies AC mains voltage to up to five power modules in your 19" fast charging station. It also supplies power to the control module. Integrated surge protection, miniature circuit breakers, and overheating protection ensure the maximum safety of all downstream modules and cables. This enables the fused connection of power modules of overvoltage category II.

Your advantages

- Efficient and space-saving supply of all power modules in the charging station
- Fast installation and maintenance with 19" standard and push-in fast connection
- Compliant with European safety and EMC standards in accordance with EN 61000
- Includes surge protection, miniature circuit breakers, and protection against overheating
- Enables the fuse-protected connection of power modules of overvoltage category II

Commercial data

Item number	1342893
Packing unit	1 pc
Minimum order quantity	1 pc
Product key	CMERZE
GTIN	4063151653668
Weight per piece (including packing)	14,000 g
Weight per piece (excluding packing)	13,700 g
Country of origin	DE

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Technical data

Input data

AC operation

Input voltage range	3x 400 V AC ... 480 V AC -15 % ... +10 %
Frequency range	50 Hz ... 60 Hz $\pm$ 10 %
Input current	3x 232 A
Supply system configuration	Star network (TN-S, TT)

Output data

Nominal power	150 kW
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Supply of external I/O devices

Number outputs	5
Output voltage range	3x 400 V AC ... 480 V AC (L1...L3)

Supply of external I/O devices

Number outputs	1
Output voltage range	3x 400 V AC ... 480 V AC (L1...L3, N)

Connection data

Input power

Designation	Input power
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Conductor connection

Connection method	T-LOX knee lever connection
flexible with ferrule without plastic sleeve	0.25 mm ² ... 2.5 mm ²
flexible with ferrule with plastic sleeve	0.25 mm ² ... 1.5 mm ²
Stripping length	25 mm

Output power

Designation	Output power
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Conductor connection

Connection method	Push-in spring connection
rigid	1.5 mm ² ... 16 mm ²
flexible	1.5 mm ² ... 16 mm ²
Stripping length	18 mm

Signals

Designation	Signals
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Conductor connection

Connection method	Push-in spring connection
rigid	0.2 mm ² ... 4 mm ²
flexible with ferrule without plastic sleeve	0.25 mm ² ... 1.5 mm ²

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flexible with ferrule with plastic sleeve	0.25 mm² ... 2.5 mm²
rigid (AWG)	24 ... 12
Stripping length	10 mm

Signaling

Signal output Relay

Connection labeling	Temperature relay (OTP)
Function	Operating state forwarding
Switch contact (floating)	N/O contact
Switching voltage	30 V DC
Current carrying capacity	1 A

Signal output Relay

Connection labeling	Surge protection (SPD)
Function	Operating state forwarding
Switch contact (floating)	N/O contact
Switching voltage	30 V DC
Current carrying capacity	1 A

Electrical properties

Electrical isolation between input and output	no
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Product properties

Product type	AC distribution module
Product family	CHARX power distribute
Internal fan	yes
Flow direction	from front to back

Insulation characteristics

Protection class	I
Pollution degree	2

Dimensions

Item dimensions

Width	483 mm
Height	134 mm
Depth	598 mm
Rack unit	3 U

Mounting

Mounting type	19" rack mounting
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Material specifications

Housing material	Zn-Al alloy
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Environmental and real-life conditions

Ambient conditions

Degree of protection	IP20
Ambient temperature (operation)	-25 °C ... 60 °C
Ambient temperature (storage/transport)	-40 °C ... 70 °C
Maximum altitude	≤ 2000 m
Permissible humidity (operation)	≤ 95 % (non-condensing)
Noise level	< 67 dB (1 m)

Standards and regulations

Overvoltage category

IEC 60664-1	III
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Electric vehicle conductive charging system - Part 1: General requirements

Standard designation	Electric vehicle conductive charging system - Part 1: General requirements
Standards/specifications	IEC 61851-1

Approvals

UL specifications

Nominal discharge current I_n	20 kA
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EMC data

EMC requirements for noise emission	EN 61000-6-3
EMC requirements for noise immunity	EN 61000-6-1

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Classifications

ECLASS

ECLASS-11.0	27144792
ECLASS-12.0	27144792
ECLASS-13.0	27370107

ETIM

ETIM 9.0	EC002498
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Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes
Exemption	6(c), 7(a), 7(c)-I

China RoHS

Environment friendly use period (EFUP)	EFUP-25
	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.)	1,3,5-Tris(oxiran-2-ylmethyl)-1,3,5-triazinane-2,4,6-trione (TGIC)(CAS: 2451-62-9)
	Lead(CAS: 7439-92-1)
	2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one(CAS: 71868-10-5)
SCIP	1f4d7ba4-72a8-4889-84bc-9e144d2d8720

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Accessories

CHARX CONTROL-M2/150KW - DC charging controller

1311433

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CHARX control integrated, Power control unit for the construction of DC charging stations, 19" rack mounting, input: 0 V DC...1000 V DC, output: 0 V DC...1000 V DC / 0 A DC...500 A DC

CHARX PS-M2/3AC/1000DC/30KW - DC power module

1232243

<https://www.phoenixcontact.com/in/products/1232243>



CHARX power basic, Fast charging module for setting up DC charging stations, 19" rack mounting, input: 3-phase, output: 30 V DC...1000 V DC / 0 A...100 A

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EV-T1G2CC-DC200A-5,0M1ASBK11 - DC charging cable

1051695

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CHARX connect standard, CCS type 1, DC charging cable, up to 500 A in Boost mode, 200 A Permanent, 1000 V DC, with vehicle charging connector and open cable end, cable: 5 m, black, straight, with charging connector holder, with analog temperature sensors, PHOENIX CONTACT logo, SAE J1772, IEC 62196-3, for charging electric vehicles (EV) with direct current (DC)

EV-T2M4CC-DC250A-5,0M70ESBK11 - DC charging cable

1107339

<https://www.phoenixcontact.com/in/products/1107339>



CHARX connect standard, CCS type 2, DC charging cable, up to 500 A in Boost mode, 250 A Permanent, 1000 V DC, with vehicle charging connector and open cable end, cable: 5 m, black, straight, with connected PP contact, with replaceable mating face frame, with analog temperature sensors, PHOENIX CONTACT logo, IEC 62196-3, for charging electric vehicles (EV) with direct current (DC)

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PLD E 409 W 350 MS - LED enclosure light

1319573

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LED enclosure light, 24 V AC/DC ... 265 V AC/DC, length: 350 mm, degree of protection: IP20, can be swiveled ($\pm 90^\circ$ swivel range), with motion detector, including mounting accessories

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

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WP 4185-WHPS - Web panel

1148690

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Web panel with 47 cm / 18.5"-TFT display (projective-capacitive (PCAP)), 1366 x 768 pixel(s) (HD), 16.7 million colors, Arm® Cortex®-A53, 4x 1.2 GHz, 2x USB Host 2.0, 1 x Ethernet (10/100 Mbps), RJ45, Yocto/Linux® and user software: Chromium Browser. (bus system: without)

RIF-1-BPT/2X21 - Relay base

2900931

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Relay base RIF-1..., for miniature power relay with 1 or 2 changeover contacts or solid-state relays of the same design, Push-in connection, plug-in option for input/interference suppression modules, for mounting on NS 35/7,5

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EEM-PM157-SLP - Measuring device

1269236

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Direct current energy meter with direct measurement up to 1000 V / 650 A, with RS-485 interfaces for the programming software and the DC charging controller, correction of charging cable losses, operating temperature up to +80°C, certified in accordance with measuring and calibration law

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