

CHARX CONTROL-M2/150KW - DC charging controller



1311433

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



Product description

CHARX control integrated combines all functions required to control and monitor your 19" charging station. The control module manages up to five 30 kW power modules for fast DC charging up to 150 kW. It simplifies the planning, installation, and maintenance of your charging station, because it combines all the necessary components, such as charging controller, insulation monitoring, power contactors, fuse, 24 V auxiliary power supply, and many other components.

Your advantages

- Efficient and space-saving, as all functions are combined in one highly integrated device
- Fast installation and maintenance with 19" standard and push-in fast connection
- Compliant with European safety and EMC standards in accordance with EN 61000
- Flexible use with free choice of charging controller programming in accordance with IEC 61131
- Easy system integration and remote access with comprehensive interfaces

Commercial data

Item number	1311433
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	*****
Product key	CMERZE
GTIN	4063151562816
Weight per piece (including packing)	14,000 g
Weight per piece (excluding packing)	13,000 g
Customs tariff number	85371091
Country of origin	DE

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Technical data

Input data

DC power channels

Number of DC input channels	5
Input voltage range	5x 0 V DC ... 1000 V DC
Input current	max. 150 A DC (per channel)

Digital

Number of digital inputs	4
Connection method	Push-in connection
Input name	can be freely assigned
Input voltage range	-0.5 V DC ... 30 V DC
Input voltage range	-0.5 V DC ... 5 V DC ("0" signal)
Input voltage range	15 V DC ... 30 V DC ("1" signal)
Typical response time	min. 3 ms
Cable length	max. 30 m

Digital

Number of digital inputs	2
Input name	Emergency switching off channels
Input voltage range	-0.5 V DC ... 30 V DC
Input voltage range	-0.5 V DC ... 5 V DC ("0" signal)
Input voltage range	15 V DC ... 30 V DC ("1" signal)
Typical response time	min. 3 ms

AC operation

Input voltage range	3x 400 V AC ... 480 V AC -15 % ... +10 %
Frequency range	50 Hz ... 60 Hz ± 10 %
Input current	3x 6 A
Supply system configuration	Star network (TN-S, TT)

Output data

Charging interface

Charging standard	CCS type 2
Output voltage range	0 V DC ... 1000 V DC
Output current range	0 A DC ... 500 A DC
Output current	250 A
Nominal power	150 kW (DC)

Digital

Output name	can be freely assigned
Number outputs	4
Resistance to permanent reverse voltage	max. 500 mA

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Supply of external I/O devices

Number outputs	8
Output voltage	24 V DC
Nominal power	max. 216 W

Supply of external I/O devices

Number outputs	6
Output voltage	230 V AC
Nominal power	max. 1150 W

Connection data

DC Input +

Designation	DC Input +
Position	X2

Conductor connection

Connection method	T-LOX knee lever connection
rigid	10 mm ² ... 50 mm ²
flexible	16 mm ² ... 50 mm ²
flexible with ferrule without plastic sleeve	10 mm ² ... 50 mm ²
flexible with ferrule with plastic sleeve	10 mm ² ... 50 mm ²
rigid (AWG)	8 ... 1 (Cu)
Stripping length	20 mm (rigid/flexible) 8 mm (Ferrule)

AC supply voltage

Designation	AC supply voltage
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Conductor connection

Connection method	Push-in spring connection
rigid	0.2 mm ² ... 10 mm ²
flexible	0.2 mm ² ... 6 mm ²
flexible with ferrule without plastic sleeve	0.25 mm ² ... 6 mm ²
flexible with ferrule with plastic sleeve	0.25 mm ² ... 6 mm ²
rigid (AWG)	24 ... 8
Stripping length	15 mm

DC output power

Designation	DC output power
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Conductor connection

Connection method	T-LOX knee lever connection
rigid	25 mm ² ... 95 mm ²
flexible	25 mm ² ... 95 mm ²
flexible with ferrule without plastic sleeve	25 mm ² ... 95 mm ²
flexible with ferrule with plastic sleeve	25 mm ² ... 95 mm ²

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Stripping length	25 mm
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Peripheral devices

Designation	Peripheral devices
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Conductor connection

Connection method	Push-in spring connection
rigid	0.14 mm ² ... 1.5 mm ²
flexible	0.14 mm ² ... 1.5 mm ²
flexible with ferrule without plastic sleeve	0.2 mm ² ... 1.5 mm ²
flexible with ferrule with plastic sleeve	0.2 mm ² ... 0.75 mm ²
rigid (AWG)	26 ... 16
Stripping length	8 mm

External fans

Designation	External fans
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Conductor connection

Connection method	Push-in spring connection
rigid	0.2 mm ² ... 4 mm ²
flexible	0.2 mm ² ... 2.5 mm ²
flexible with ferrule without plastic sleeve	0.25 mm ² ... 2.5 mm ² (Stripping length 8 mm)
flexible with ferrule with plastic sleeve	0.25 mm ² ... 1.5 mm ² (Stripping length 8 mm)
rigid (AWG)	24 ... 12
Stripping length	10 mm

Interfaces

Wireless

Interface description	GSM, GPRS, EDGE, HSPA+ B1, HSPA+ B3, HSPA+ B7, LTE B1, LTE B3, LTE B7, LTE B8, LTE B20, LTE B28A
Number	1
Connection method	SMA socket
Impedance	50 Ω
SIM card (1.8 V/3 V mini SIM)	1
SIM Interface	1,8 V / 3 V Mini SIM
GPRS	Class 12, Class B
EDGE	Multislot Class 10
LTE	CAT1, CAT4

Cellular communication transmission power

2G (E-GSM900/DCS1800)	2.24 W
3G (B1, B3, B8)	0.316 W
4G (B1, B3, B7, B8, B20, B28A)	0.316 W

Ethernet

Interface	Ethernet
Number of interfaces	1

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Connection method	RJ45
Transmission physics	wired
Transmission speed	100 Mbps

CAN-Bus

Interface	CAN bus
Number of interfaces	1
Connection method	RJ45
Supported protocols	CAN 2.0B
Locking	Locking clip
Transmission physics	wired
Topology	Line (daisy-chain connection)
Transmission speed	125 kbps

RS-485

Interface	Serial RS-485
Number of interfaces	2
Connection method	2x TX+/RX+, TX-/RX-
Transmission physics	wired

System properties

Configuration memory	min. 4 Mbyte (depending on storage media)
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IEC 61131 runtime system

Program memory	1 Mbyte (86 K instructions (IL))
Data storage system	1 Mbyte
Retentive data storage	48 kByte (NVRAM)
Number of control tasks	8
Processing speed	1.3 ms (1 K mix instructions) 90 µs (1 K bit instructions)

Charging controllers

Number of charging points	1
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System requirements

Engineering tool	PC Worx
Diagnostics tool	DIAG+
Runtime system	eCLR

Product properties

Product type	DC charging controller
Product family	CHARX control integrated
Operating mode	Stand-Alone Client Server
Internal fan	yes

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Flow direction	from front to back
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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 ... 55 °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	II
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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

Electric vehicle conductive charging system – Part 23: DC electric vehicle charging station

Standard designation	Conductive charging systems for electric vehicles – Part 23: DC supply equipment for electric vehicles
Standards/specifications	IEC 61851-23

EMC data

EMC requirements for noise emission	EN 61000-6-3
EMC requirements for noise immunity	EN 61000-6-2

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Approvals

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IECEE CB Scheme

Approval ID: DE 3 - D0026

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Classifications

ECLASS

ECLASS-11.0	27144792
ECLASS-12.0	27144792
ECLASS-13.0	27144703

ETIM

ETIM 9.0	EC002889
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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.)	Lead(CAS: 7439-92-1)
SCIP	fe9b2214-13dd-464a-8edc-0c8f80a07697

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Accessories

CHARX AC-DIS/150KW - AC distribution module

1342893

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

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



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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CHARX PS-M2/825DC/1000DC/30KW - DC power module

1296467

<https://www.phoenixcontact.com/in/products/1296467>

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



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

1051695

<https://www.phoenixcontact.com/in/products/1051695>

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)



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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)

TC ANT MOBILE WALL 5M - Antenna

2702273

<https://www.phoenixcontact.com/in/products/2702273>



Multiband omnidirectional antenna for wall or mast mounting, 0.6 GHz ... 6 GHz, gain: 3 dBi ... 7 dBi, degree of protection: IP66, connection: SMA (male), incl. 5 m connecting cable, mounting bracket, and mast clamps

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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

PLD E 409 W 350 MS - LED enclosure light

1319573

<https://www.phoenixcontact.com/in/products/1319573>



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

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EV-RFID-ELT-IP65 - RFID device

1309687

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



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

WP 6185-WHPS - Web panel

1290807

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IP66 Touch panel with 18.5-inch widescreen (16:9) HD, PCAP display, Software: Qt Browser

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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

EEM-PM157-SLP - Measuring device

1269236

<https://www.phoenixcontact.com/in/products/1269236>



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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