KontaktCharger

Program 0585

CONDUCTIX wampfler


The perfect solution for
AGV
AMR

KontaktCharger
Powerful I Reliable I Efficient

KontaktCharger is Conductix-Wampfler's solution for line- or contact-based charging of lithium-ion batteries. The **KontaktCharger** shows its advantages when efficient and cost-effective charging of batteries is required for various vehicles in intralogistics and automated production.

With two voltage ranges and three power classes each, the **KontaktCharger** covers a wide range of applications for medium-sized IMRs, AGVs, or rail-mounted self-propelled vehicles, also known as transfer cars.

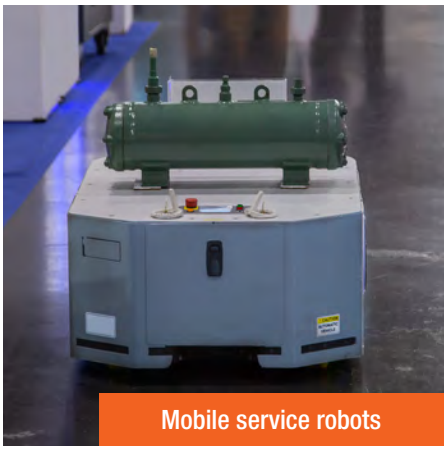
Together with **Conductix-Wampfler Li-Ion batteries, Conductix-Wampfler charging contacts and conductor rails, and Conductix-Wampfler mobile safety devices (Radio Safe)**, the **KontaktCharger** offers the market a comprehensive and coordinated bundle of products for the energy supply of these vehicles from a single source.

Automated Mobile Robots

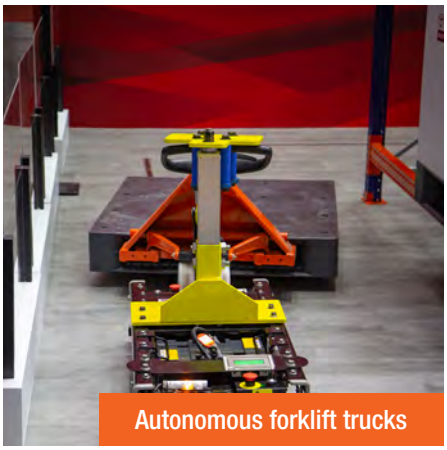
With different versions, the application range of the **KontaktCharger** includes both 24 V applications and 48 V applications, each with 3 different power classes. Like this charging powers from 2 kW up to a powerful 9 kW can be covered.

Mobile assembly platforms

Driverless transport systems



Mobile service robots



Autonomous forklift trucks

Industrial trucks

KontaktCharger
Technical information

Available versions and combinations with charging infrastructure

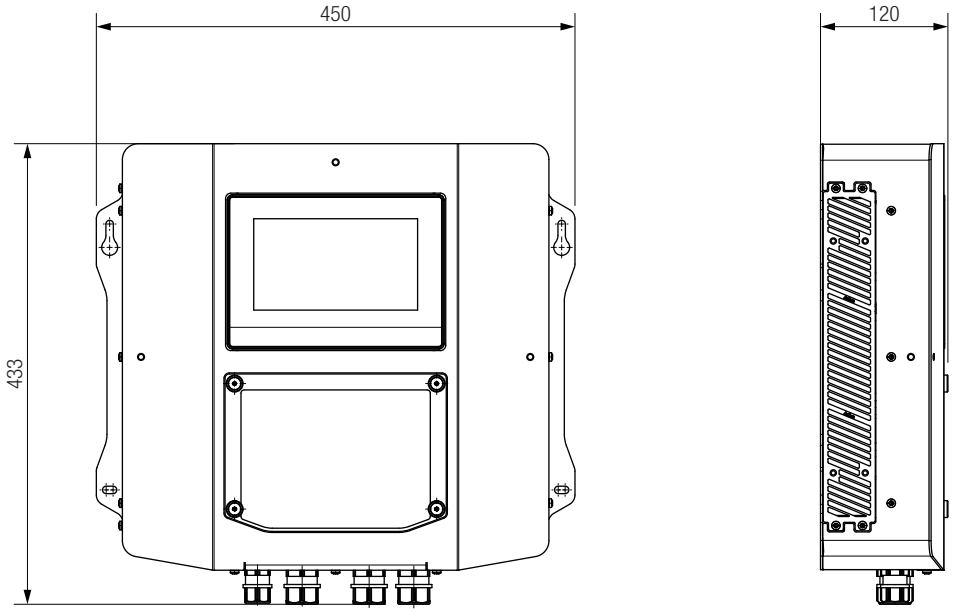
24 V Versions	small 24 V 2 kW	medium 24 V 4 kW	large 24 V 6 kW
48 V Versions	small 48 V 3 kW	medium 48 V 6 kW	large 48 V 9 kW
Suitable Conductor Rail	ChargeLine Program 0865	Single**Power**Line Program 0812	Single**Power**Line Program 0812
Suitable Charging Contacts	Nano⁺ 75 A /100 A Enduro⁺ 100 A	Nano⁺ 150 A / 200 A Enduro⁺ 200 A	Nano⁺ 200 A / 300 A Enduro⁺ 200 A / 300 A

Technical features

Environmental conditions	
• Temperature range	+5°C ... +40°C
• Relative humidity	5% ... 85%, non-condensing
Temperature monitoring	Active fan cooling
Operating noise	< 66 dB (A)
Protection class	IP20
Approvals	CE, IEC/EN 62477-1, 61000-6-2, IEC 61000-6-4
Efficiency	> 90 %

Overview and installation

All versions of the KontaktCharger use the same robust metal housing with identical dimensions and identical mechanical as well as electrical interfaces.

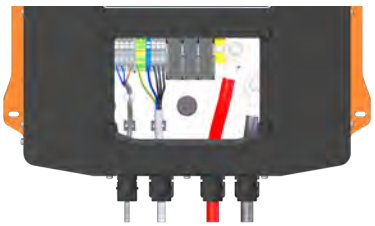


KontaktCharger
Technical information

Installation

The KontaktCharger weighs between 13 kg and 19 kg, depending on the power class. The KontaktCharger is designed to be mounted on a vertical surface, usually for wall mounting in indoor areas.

Mounting material is not part of the scope of delivery.



Drilling pattern for wall mounting

All electrical interfaces are located under a maintenance cover on the front of the unit, and are easily accessible via four quick-release fasteners.

The cable glands on the bottom of the device are designed for the following cable diameters:

1 x control line CAN bus or pilot contact (only for CAN 2.0B):	8mm - 15mm
1 x input power supply AC from the mains:	8mm - 20mm
2 x output charging cables DC to the battery:	8mm - 20mm

Operation and functions

The device is operated via a colored, graphic control panel (touch screen), placed in the upper front area of the housing. The operating menu follows a hierarchical structure consisting of a start/status page and setting pages for the various operating modes and error displays. The standard CAN 2.0B or the standard CANopen are available as communication interfaces to the battery. Battery information is also shown on the Charger Display in BMS operating mode.

As an alternative to the active exchange of information via CAN interfaces, the KontaktCharger can also be started or stopped. Contact chargers with CAN 2.0B interface also offer this functionality via a pilot contact. In the manual operating mode, the charging current and charging end voltage are preset via the menu; in the automatic or BMS mode, the charging parameters are specified by the battery's BMS.

The KontaktCharger is designed for indoor use with a ambient temperature allowance of 5°C up to 40°C. In the temperature range above 30°C, the power of the KontaktCharger is gradually reduced (de-rating) to protect against overheating.

The maximum reduction at 40°C is approx. 10% of the nominal power. The KontaktCharger has active fan cooling, whereby the air flow passes horizontally through the device.

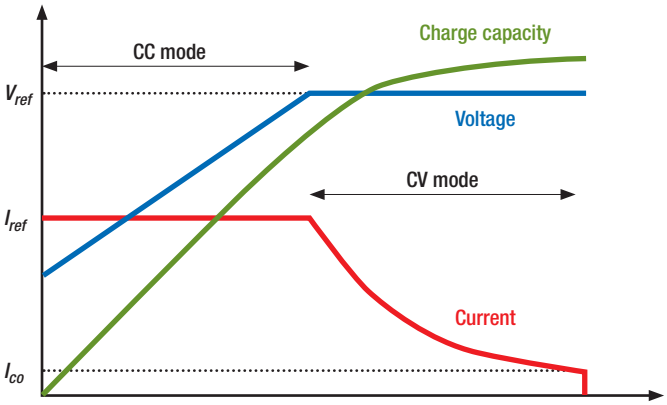
KontaktCharger
Ordering information

Versions and order numbers

Designation:	Comm interface	Pilot contact	Nominal voltage	Maximum power	Order number
KontaktCharger 48-3	CAN 2.0B	●	48 V	3 kW	**058503-230-048-11**
KontaktCharger 48-6	CAN 2.0B	●	48 V	6 kW	**058506-400-048-11**
KontaktCharger 48-9	CAN 2.0B	●	48 V	9 kW	**058509-400-048-11**
KontaktCharger 48-3	CANopen	–	48 V	3 kW	**058503-230-048-12**
KontaktCharger 48-6	CANopen	–	48 V	6 kW	**058506-400-048-12**
KontaktCharger 48-9	CANopen	–	48 V	9 kW	**058509-400-048-12**
KontaktCharger 24-2	CAN 2.0B	●	24 V	2 kW	**058502-230-024-11**
KontaktCharger 24-4	CAN 2.0B	●	24 V	4 kW	**058504-400-024-11**
KontaktCharger 24-6	CAN 2.0B	●	24 V	6 kW	**058506-400-024-11**
KontaktCharger 24-2	CANopen	–	24 V	2 kW	**058502-230-024-12**
KontaktCharger 24-4	CANopen	–	24 V	4 kW	**058504-400-024-12**
KontaktCharger 24-6	CANopen	–	24 V	6 kW	**058506-400-024-12**

KontaktCharger
FAQs

CCCV-Charging



The usual charging behavior of the charger when manually charging Li-Ion batteries.

CCCV stands for Constant Current (red) - Constant Voltage (blue)

In BMS charge mode, the charge curve may deviate slightly according to the specifications of the battery management system (BMS).

Supercap charging

The KontaktCharger is optimized for charging Li-Ion batteries. In principle, it is also suitable for charging SuperCaps. For more detailed information and settings, please contact our technical support.

Lead acid battery charging

The KontaktCharger is optimized for charging Li-Ion batteries. In principle, it is also suitable for charging classic lead acid batteries. For more detailed information and settings, please contact our technical support.

www.conductix.com

Conductix-Wampfler
has just one critical mission:
To provide you with energy and data transmission systems that will keep your operations up and running 24/7/365.

To contact your nearest sales office, please refer to:
www.conductix.contact

KAT0585-0001a-EN