



KIEPE INSULATING CONVERTER KIC 200

CENTRAL POTENTIAL SEPARATION AND TRACTION BATTERY CHARGER IN CATENARY VEHICLES

- DC/DC converter for high variance of input and output voltages
- Double insulation of the catenary potential against the output with optional insulation monitoring
- Reverse polarity protection for any polarity of the catenary
- Integrated grid filter and overvoltage protection according to EN 50124-2
- Compliance with EMC requirements according to UN / ECE R10 and EN 50121-3-2
- High power density and optimized design for roof mounting



KIEPE ELECTRIC

Technical description

The galvanically isolating DC/DC converter KIC 200 is primarily designed for IMC[®] (In-Motion Charging) buses: Powered by the catenary, the KIC 200 functions as a battery charger, allowing an e-bus to become an IMC[®] bus.

The requirement of double insulation applies to catenary vehicles. The galvanic isolation of the KIC 200 meets this requirement. Thus, for example, an IMC[®] bus can be built based on a generic e-bus platform.

With the help of KIC 200, e-trucks and various special vehicles can be upgraded for operation and battery charging from the

tram/trolleybus catenary.

Built in modular design, the 300 kW variant is optionally available for higher a power demand.

The KIC 200 is characterized by its high power density and its optimized design for roof mounting. With its proven technology based on auxiliary power supply modules from trams and trolleybuses, it can be used even in cold regions with temperatures down to -40 °C.

Electrical data	
catenary voltage	DC 380 ... 1000 V
Thermal catenary current	350 A
Output voltage	DC 500 ... 850 V
Thermal output current	310 A
Maximum continuous power	200 kW
Overload capability	20 % for 10 s
Communication and control	
Communication	CAN / Ethernet (diagnostics) / 4 x DI / 4 x DO
Control voltage	DC 24 V according to EN 50155
Mechanical data	
Dimensions (L x W x H)	1643 mm x 877 mm x 378 mm
Weight	265 kg
Protection class	IP54
Cooling	Forced ventilation
Ambient temperature	-40 °C ... +45 °C
Other	
Overvoltage protection	EN 50124-2
EMC	EN 50121-3-2 / UN ECE R10
Fire protection	EN 45545
Design of electrical connections	Plug

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