

Kiepe Traction Inverter KTI 20x, 30x

FOR ELECTRIC BUSES AND TRUCKS



- **Universal:** Drives both central motors and wheel-motors
- **Powerful:** High power density due to efficient semiconductor technology
- **Compact:** Flexible mounting due to compact dimensions
- **Assembly-friendly:** Plug and play connectors, no tools required for electrical installation
- **Safe:** Meets safety requirements according to ISO 26262
- **Predictive:** Maintenance with Smart Fleet Management (SFM)
- **Efficient:** Advanced traction control (Kiepe Traction Control KTC)

Technical Data

Efficiency	approx. 98 %
Input voltage	DC 500 V to DC 800 V
Max. continuous output current (per phase)	350 Arms
Max. continuous DC input current	400 A
Switching frequency	4 kHz to 10 kHz
Operating temperature	-40 °C to +85 °C
Protection class	IP6K9K
Cooling	Water cooling (60' at 20 l/min)
Communication	CAN, Ethernet
Supply voltage	DC 24 V
Dimensions	560 x 445 x 110 mm
Weight	25 kg (55 lbs)

Technical Description

The KIEPE Traction Inverter (KTI) is controlled by a Traction Control Unit (TCU) which contains the software for brake blending or axle-selective torque control. KIEPE's Smart Fleet Management (SFM) optimizes the efficiency of the electrical system in

the vehicle using the Energy Control Unit (ECU). These parts are the basic building blocks of our new KTI and can be extended to both a subsystem and complete system installation for any electric vehicle.

Certifications

Functional safety	ISO 26262
Electrical Strain	ISO 16750-2
Shock and vibration	ISO 16750-3
Thermal load capacity	ISO 16750-4
Chemical resistance	ISO 16750-5
Electromagnetic compatibility	ECE R10
Performance determination	ECE R85
Insulation coordination	EN 60664-1

