



## **DIRECT PULSE CONVERTER DPU 107**

### **COMPACT AND POWERFUL TRACTION CONVERTER FOR TRAMS AND TROLLEY BUSES**

- Significantly reduced installation volume
- Optimum performance for a traction bogie, axle-selective or group drive
- Integrated brake chopper
- Integrated EMC measures
- Optimized switching characteristics
- Modern control algorithm for the highest demands on control dynamics
- Modern service and diagnostic software



**KIEPE ELECTRIC**

## Technical description

The direct pulse inverter was developed using the latest IGBT technology to meet increasing demands for compactness, modularity and performance.

The device is designed for use in trams as well as in trolley buses.

The control of the power electronics and the drive control are carried out with modern control hardware and include all operating and service functions according to the state of the art, e.g. skid protection, acceleration control, fault memory and diagnosis.

Electrical data	
<b>Catenary voltage (nominal)</b>	DC 600/750 V
<b>Motor current, eff. (continuous / peak)</b>	230A-400A/650A-1000A
<b>Nominal power</b>	150kW-250 kW
<b>Brake chopper</b>	Integrated
<b>Max. Basic frequency</b>	300 Hz
Communication and control	
<b>Communication</b>	CAN
<b>Control voltage</b>	DC 24 V according to EN 50155
Mechanical data	
<b>Weight</b>	55kg-75kg
<b>Cooling</b>	Forced air cooling/ water cooling
<b>Ambient temperature</b>	-40 °C ... +50 °C (vehicle environment/ T3 according to EN 50125-1)
<b>Mounting location</b>	Roof or underfloor unit housing
Other	
<b>Electronics</b>	EN 50155
<b>EMC</b>	EN 50121-3-2
<b>Vibrations and shocks</b>	EN 61373 Category 1, Class B

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