

TRS-600

TRACTION MOTOR CONTROL/DRIVER UNIT



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Product Description

TRS-600 is developed for metros, tramways and LRVs, and based on IGBT technologies and advanced control algorithms.

TRS-600 is a high performance and high intelligence inverter including safety, robustness and efficient features.

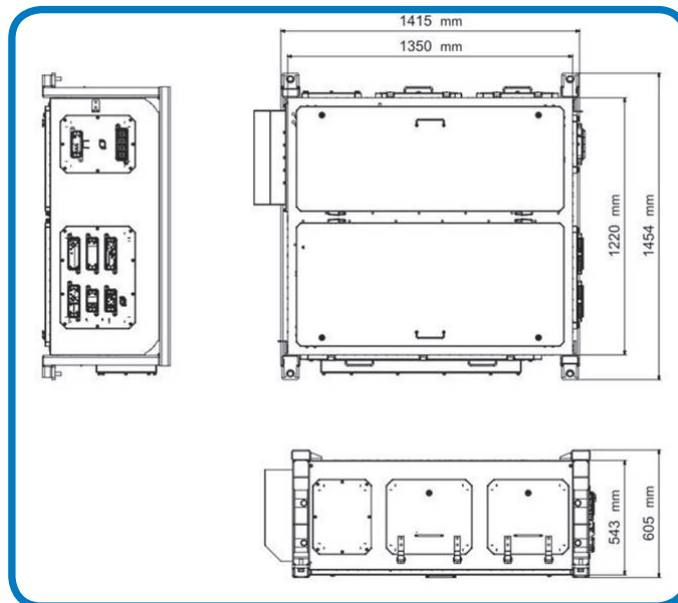
Typical Applications

- Metro
- Tramway
- Light Rail Vehicles

General Features

- Single and multiple parallel traction motor control capability
- Asynchronous and synchronous traction motor control
- Sensitive torque control with dynamic current variation
- Regenerative and dynamic braking
- Redundant operation in case of malfunction
- High efficiency switching techniques
- Flexible design with its DSB technology
- Built in test function
- High temperature protection
- High current protection

Mechanical Dimensions



Technical Characteristics

Electrical Specifications

- Nominal Input Voltage : 750VDC/1500VDC
- Peak Output Power (60 sec) : 600kW
- Nominal Output Power : 400 kW
- Switching Frequency : 2.5 kHz / 2 kHz
- Maximum Output Frequency : 200 Hz
- Efficiency : 96 %
- Control Electronics Input Voltage : 24/36/48/96/110 VDC
- Semiconductor Technology : IGBT
- Communication Interface : MVB (CANopen opt.)

Mechanical Specifications

- Dimensions : 1415 X 1454 X 543 mm
- Weight : 600 kg

Cooling Specifications (Forced Air Cooling)

- Maximum Inlet Cooling Temperature : 45 °C
- Nominal Air Flow : 0.386 m³/s

Environmental

- Ambient Operational Temperature : -40 °C / +45 °C
- Storage Temperature : -40 °C / +65 °C
- Sealing : IP65

Standards

- Functional Compatibility : EN 50155, EN50207, EN61287, EN61377
- Electromagnetic Compatibility (EMC) : EN 50121-3-2