

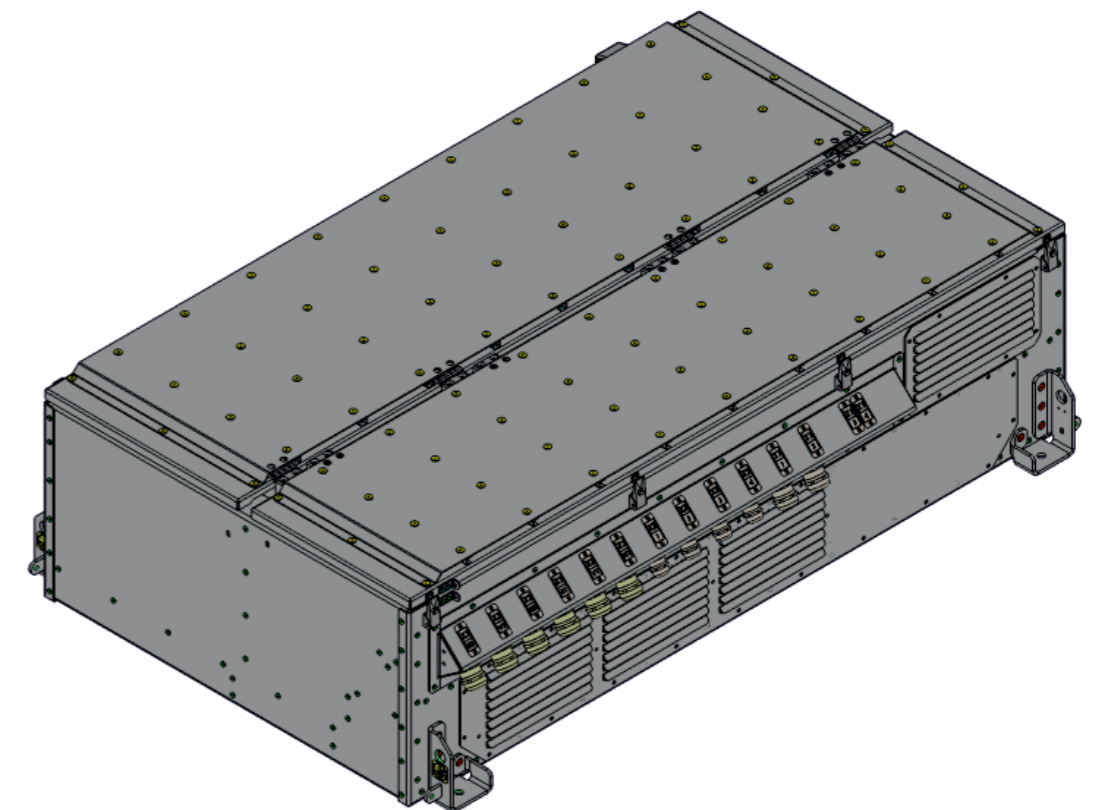
ENI-FT600/200X Traction inverter

APPLICATION



The ENI-FT600/200X inverter is used to supply asynchronous traction motors with alternating voltage with adjustable frequency. The inverter converts the DC traction network voltage into alternating voltage with adjustable amplitude and frequency. Allows you to change the direction of rotation of the traction motor (forward/reverse driving). The control system implements the vector control algorithm consisting in simultaneous indirect control of the torque and flux of the traction motor rotor. The use of this adjustment algorithm allowed to achieve very good traction properties in dynamic states and optimal use of the inverter. The drive inverter provide:

- Implementation of all motion functions of the vehicle: starting, braking (regenerative as a priority and resistive), coasting, braking at a standstill.
- Obtaining dynamic parameters of electrodynamic start-up and braking in accordance with the requirements of Regulation No. 344 of the Minister of Infrastructure of March 2, 2011 on the technical conditions of trams and trolleybuses and their necessary equipment.
- Electrodynamic braking carried out until the vehicle comes to a complete stop.
- Possibility of real-time monitoring of the drive status and vehicle start-up parameters using the operator panel connected to the CAN network.



SPECIFICATION

TYPE	ENI-FT600/200X
Rated input voltage	600 V _{DC}
Rated control input voltage	24 V _{DC} * maximum voltage variation 17± 30 V _{DC}
Supply voltage variation	400 ÷ 800 V _{DC}
Rated output voltage	3 x 400 V 65 HZ
Output frequency	0 ÷ 200 Hz
Rated power output	2 x 140 kVA
Maximum power output	250% of rated power
Drive controller communication	CAN 2,0 A, CANOpen, I/O contacts
Cooling	Forced, air
Enclosure protection rating	IP65 - Power electronics compartment IP21 - air ducting
Weight	265 kg
Size (L x W x H)	1055 x 1582 x 450 mm