

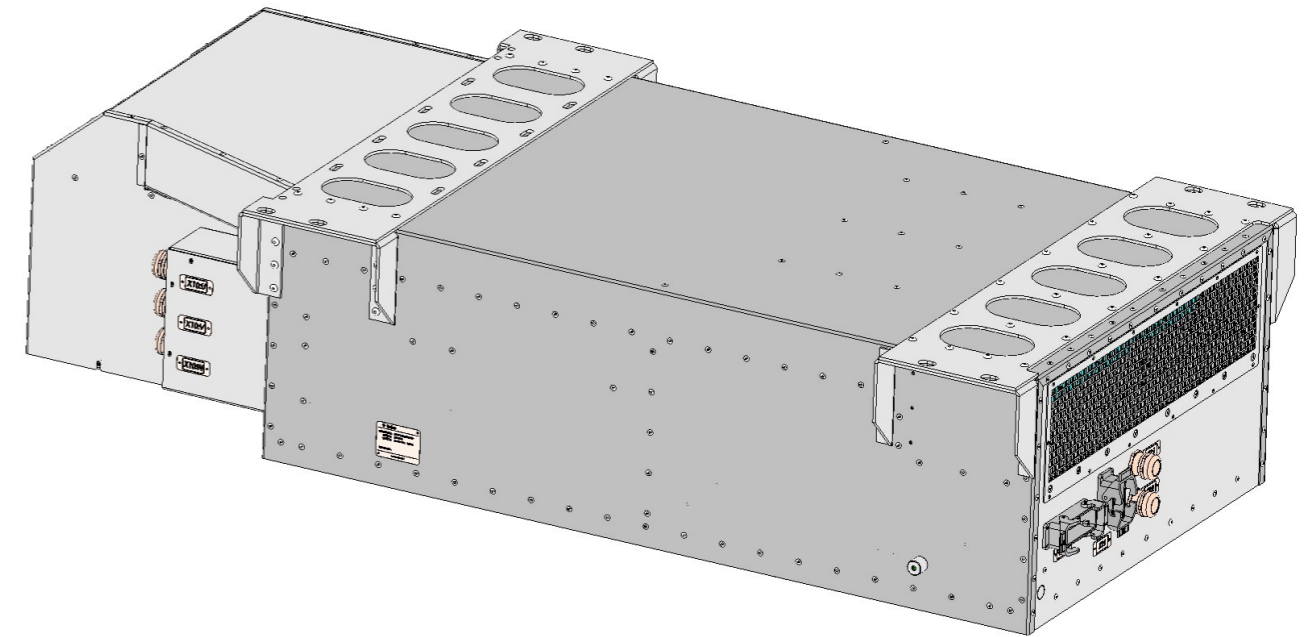
# ENI-FT600/N8C/GD Traction inverter

## APPLICATION



The ENI-FT600/N8C/GD inverter is used to supply the asynchronous traction motor 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. Using its adjustment algorithm allowed to achieve very good traction properties in dynamic conditions and optimal use of the inverter. The drive inverter provides:

- 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.
- the possibility of current monitoring of the drive operation status and vehicle start-up parameters using the operator panel connected to the CAN network.



**SPECIFICATION**

TYPE	ENI-FT600/N8C/GD
Rated input voltage	600 V
Rated control input voltage	24 V
Supply voltage variation	400 ÷ 800 V <sub>DC</sub>
Rated output voltage	3 x 380 V 63Hz
Output frequency	0 ÷ 200 Hz
Rated power output	180 kVA
Maximum power output	360 kVA
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	about 385 kg