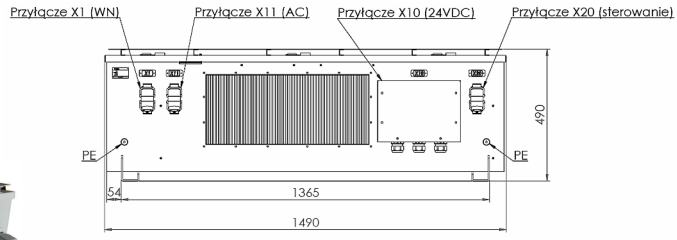
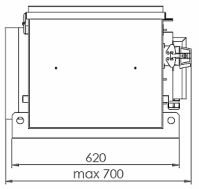
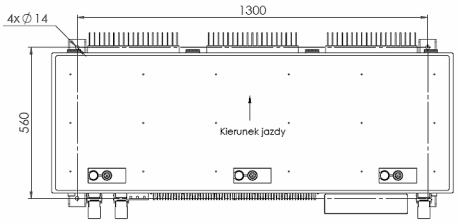
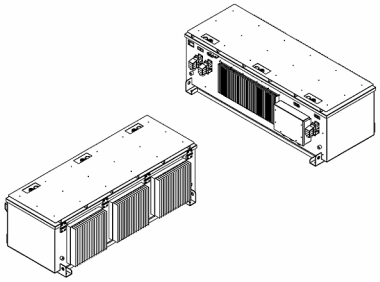
ENI-PT600/24/AC/EL Converter

Product Data Sheet









APPLICATION

The ENI-PT600/24/AC/EL static converter is intended as a 3 x 400 V_{AC} and 24 V_{DC} power supply for auxiliary systems in low-floor trams.

SPECIFICATIONS

Rated input voltage	600 V_{DC}
Supply voltage variation	400 to 900 V_{DC}
DC output	
Rated voltage	27,9 V_{DC} ± 0,1 V
Rated output current	350 A (400 A current source mode for 30 s)
Battery charging current limit	25 A ± 2 A
Protections	overload output terminal shorting
AC voltage output	
Rated voltage	3 x 400 V +N (50 Hz)
Rated power output	17 kVA
Protections	shorting and overload
Integrated autostart systems (w/o battery voltage)	
Cooling	natural
Ambient temperature	-30°C to +40°C
Enclosure protection rating	IP65

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DESIGN

The converter is installed in a sealed and robust aluminium sheet enclosure which houses all its necessary equipment. The enclosure is preserved with a powder coat finish. The cover facilitates service access to the converter interior. The cover has a reflective aluminium shield which protects the converter from solar radiation heat. The electrical connections of the converter have been designed specifically for easy mounting in a dedicated installation bay. The HV input terminals, the 3 x 400 V_{AC} outputs, and the control and CAN data terminals are multi-pin connectors. The 24 V_{DC} output is provided from screw terminals. The converter features an integrated battery current sensor.

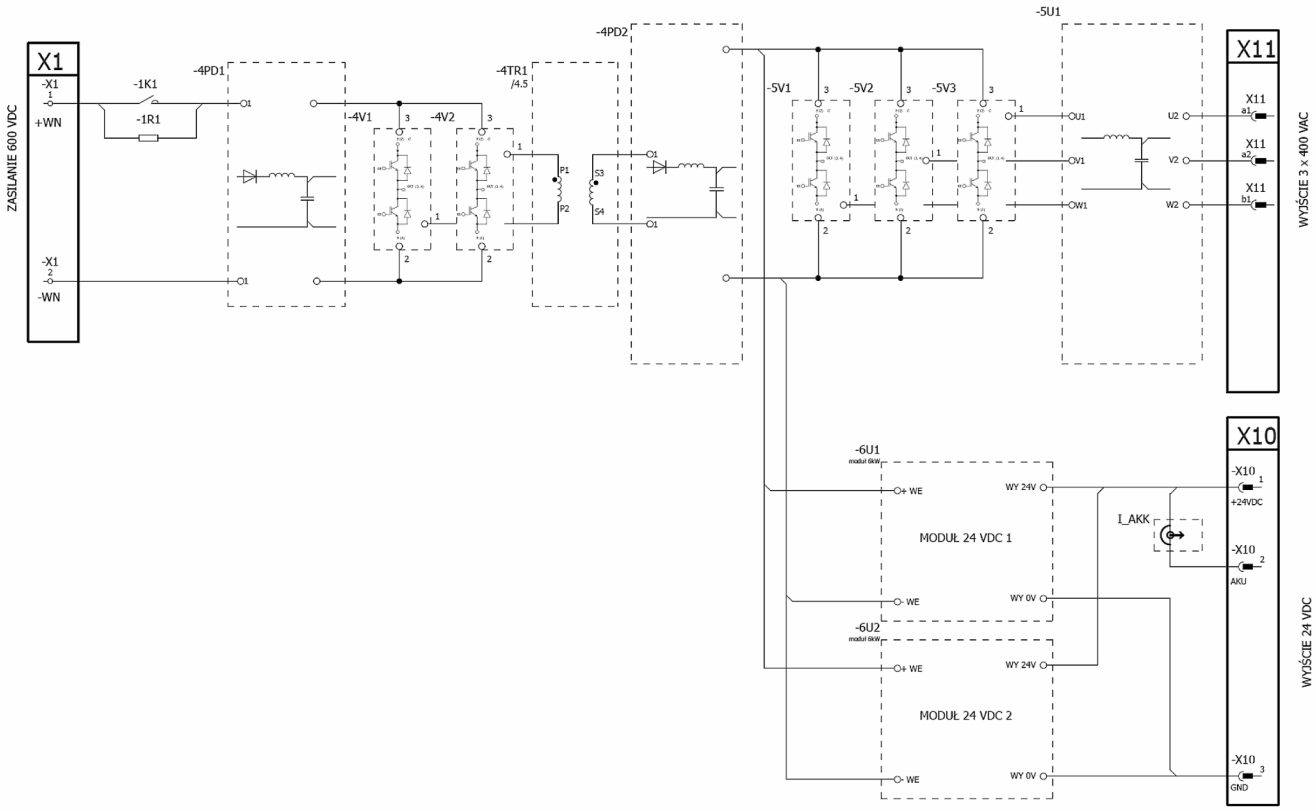
OPERATION

The ENI-PT600/40/24/AC/EL converter transforms the tram contact system HV into:

- 24 V_{DC} separated and stabilised output for auxiliary and battery charging/floating lines,
- 3 x 400 V_{AC} separated and stabilised three-phase voltage output for other auxiliary systems, for instance, for onboard air conditioning.

The integrated autostart system starts the converter even if the battery bank is drained.

BLOCK DIAGRAM



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