

APPLICATION

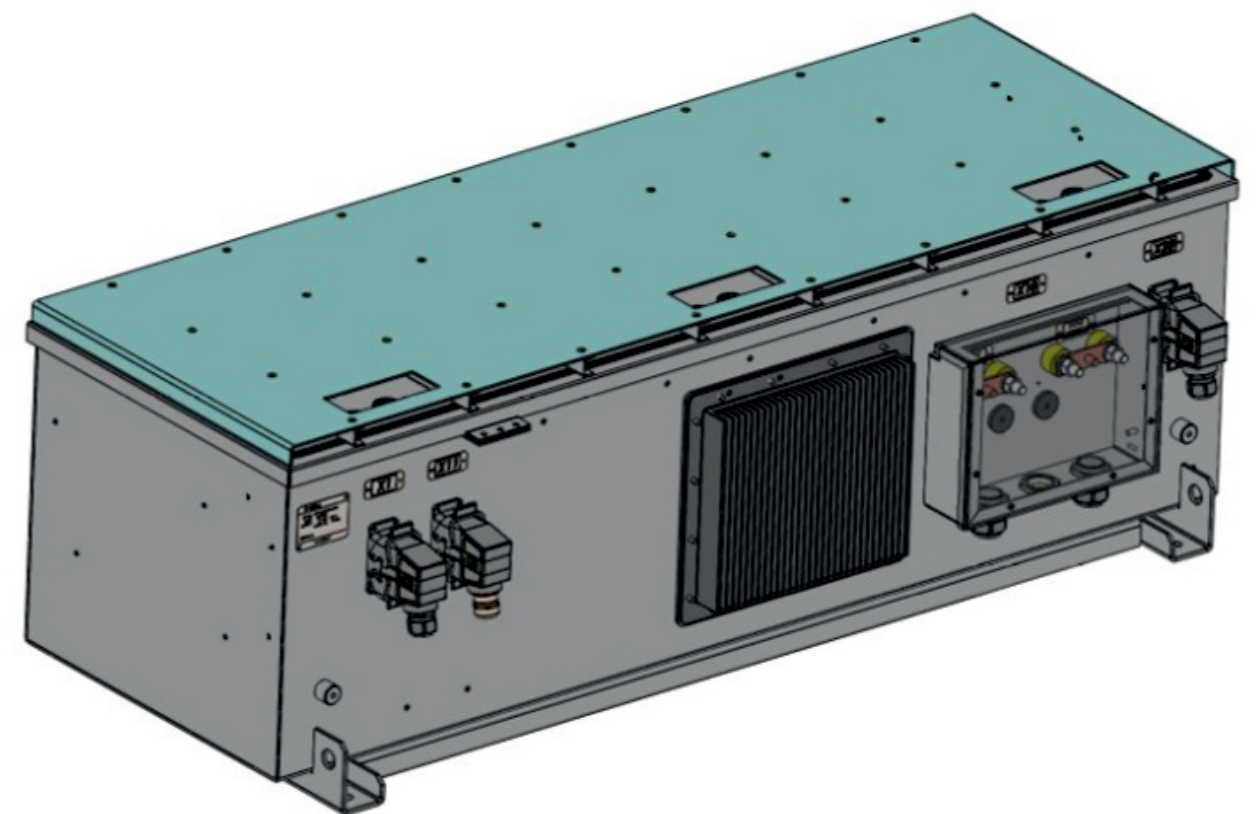


The ENI-PT600/24/AC/EL3 converter is intended as a 3 x 400 V_{AC}, 50 Hz and 24 V_{DC} power supply for auxiliary systems in low-floor trams.

The ENI-PT600/24/AC/EL3 converter transforms the tram contact system HV into:

- 27.8 V_{DC} stabilised supply for DC lines and the battery bank,
- 3 x 400 V_{AC}, 50 Hz or 3 x 350 V_{AC} dual-mode sine-wave supply for AC lines.

The integrated autostart system starts the converter even with the battery bank in a discharged condition. The converter control block ensures voltage output stability, battery charging current control and overload and shorting protection.



SPECIFICATION

TYPE	ENI-PT600/24/AC/EL3
Rated input voltage	600 V _{DC}
Supply voltage variation	400 ÷ 900 V _{DC}
DC output	
Rated voltage	27,8 V _{DC}
Rated current	175 A _{DC}
Battery charging current limit	
The output is designed for parallel operation with two converters per battery bankon	
SiC output design	
Protection	Output terminal shorting Long-term overload protection
AC voltage output	
Rated voltage	3 x 400 V _{AC} - 50 Hz / 3 x 350 V _{AC} - 44 Hz
Rated power	28,5 KVA
Protection	Overload; shorting
Output keep-alive for > 200 ms without HV input power	
General parameters	
Integrated autostart systems (w/o battery voltage)	
Cooling	Wymuszone
Ambient temperature	-30°C ÷ +50°C
Enclosure protection rating	IP66
Size (L x W x H)	175 x 710 x 500 mm
Weight	220 ± 5 kg