



JN 1507/400/40

AUXILIARY CONVERTER



The converter is designed for feeding power to electric train units



High quality



Modular system

The auxiliary converter is intended for feeding of AC and DC loads of electric train units for catenary voltage 1500V DC. The converter of modular construction contributes to the high quality and comfort of the newly built and modernized coaches.

Technical specification

Input:

Nominal input voltage	1500V DC
Input voltage tolerance	1000V DC up to 2000V DC (permanent)

Output:

Converter has AC output, used to feed three phase loads 3x400V AC 50Hz and single phase loads 230V AC 50Hz of the coach. The converter has included a step-down DC/DC converter with maximum power 10kW, which provide output voltage 40Vdc. Its purpose is feeding of electromagnetic braking system. Battery charger with maximum power 10kW is installed in small separate cabinet PS24-3 and provide voltage for 24V DC loads and charging of 24V battery.

AC OUTPUT

Nominal output voltage	3 x 400VAC/230VAC neutral wire available
Nominal frequency	50 Hz
Nominal power	40 kW / 50 kVA

DC OUTPUT 1 — DC/DC STEP DOWN CONVERTER FOR FIELD EXCITATION/ELECTROMAGNETIC BREAKING

Nominal output voltage	40 VDC
Output voltage range	ADJUSTABLE IN SW
Nominal load current	250 A
Maximum power	10kW (Max. duty cycle 25 %)
Short-circuit protection	yes

DC OUTPUT 2 – BATTERY CHARGER

Nominal output voltage	28,6VDC ± 1.5%
Output voltage range	16,8 V— 30 VDC
Maximum power	10 kW
Maximum current	350 A
Short-circuit protection	yes
Input voltage	680V DC

Other data:

Dimensions	2085 x 1095 x 550 mm
Weight	580 kg
IP level	IP65/IP55*

(*cabinet is designed for IP65 but due provided drainage holes for condensing water on bottom of cabinet, the real IP level is reduced to IP55)

Cooling forced	air
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