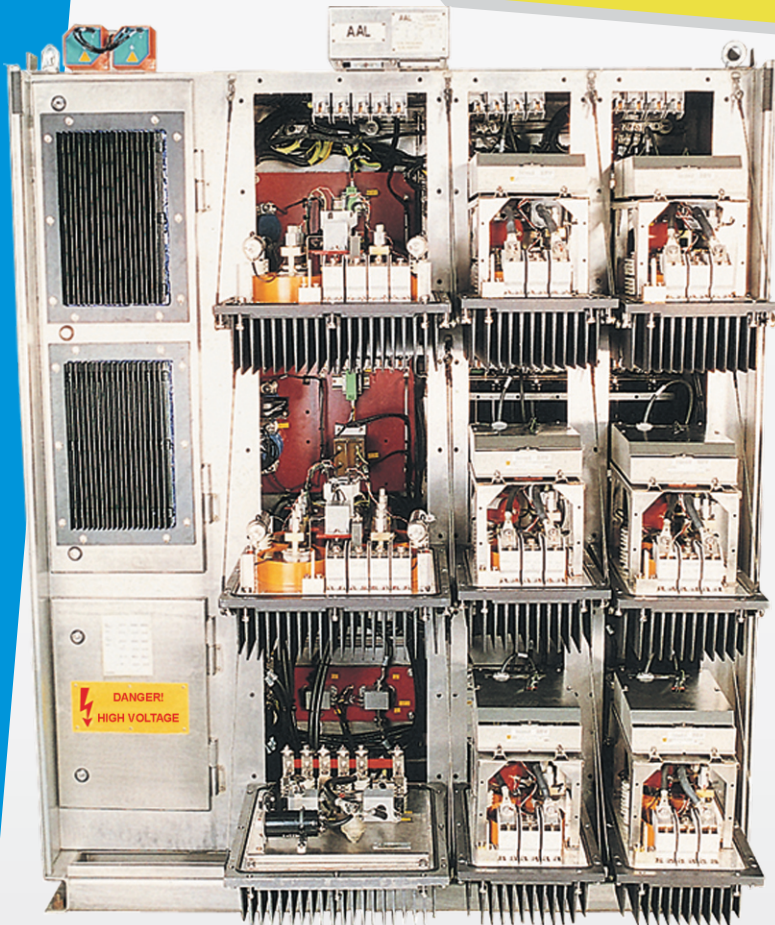




AAL[®]
Autometers Alliance Ltd

Auxiliary Converter (300 kVA)

Autometers Alliance Ltd was selected by the Indian Railways (CLW) for the manufacture of 300 kVA GTO-Based Auxiliary Converter. The product is in accordance with IEC 61287-1, IEC 60571 and IEC 60310.



Salient Features

- A modular concept, in which, each module serves a specific power and control function
- Designed to give 200 kVA with VVVF and 100 kVA with VVCF
- Designed to sustain wide input voltage and frequency variations
- Thyristor controlled rectifiers
- Independent phase modules of inverter combined to build a 3-phase inverter
- Protection against over voltages in the DC link and at the input
- Microprocessor based electronic rack for controlling and monitoring the functioning of the power modules
- Communication between converter and the vehicle control unit through MICAS-52
- Cooling within the cubicle through internal fans
- Easy to maintain and lower life cycle cost



Applications

Converts single phase input voltage with typical railway characteristics to stabilised 3-phase voltages for the safe and reliable operation of electrical equipment onboard railway vehicles.

Technical Specifications

A. Input

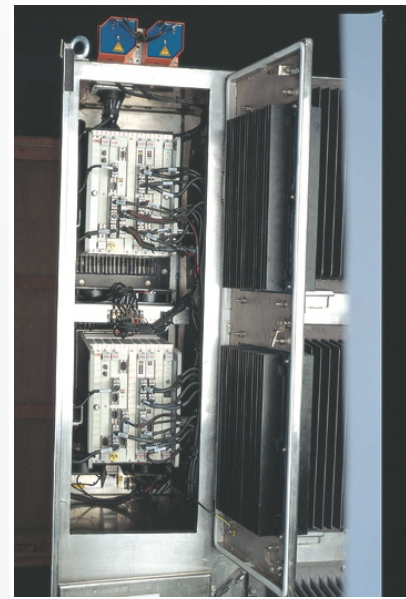
Factors	Values
Nominal voltage	AC single phase, 760 V to 1200 V (corresponding to catenary voltage of 19 to 30 kV)
Frequency	50 ± 4%

B. Output

Factors	Values
Output Power	300 kVA (100 kVA×3)
Voltage 1	AC 415 ±10%, 3-phase system
Voltage 2	DC 111V
Frequency Converter 1 & 2	3 to 50 Hz
Converter 3	50 Hz
Waveform	Quasi Sine PWM

C. General

Factors	Values
Operating ambient temperature	0 to +70°C
Cooling	Forced air cooling for control & power cubicle
Control voltage	Nominal (77 to 137.5 V)
Mounting	Onboard floor mounting
Weight: Box 1	~600kg
Box 2	~1030kg
Size: Box 1	1160×1020×1860 (mm)
Box 2	1520×1020×1860 (mm)



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