



AAL®

Autometers Alliance Ltd

DC INPUT 100kVA UNDERSLUNG CONVERTER



Autometers Alliance Ltd offers underslung 100kVA IGBT based converter for Metros. The product is designed to meet IEC 61287-1 (Edition 2.0), IEC 60571 (Edition 2.1), IEC 60310 (Edition 3.0), IEC 61373 (Edition 2.0) and other relevant IEC and Indian (BIS) standards.

Product Details

- State of the art DSP based system
- Stabilized and balanced three-phase, 415V, 50Hz output, with low current distortion
- Wide DC input variation (500 - 950 V DC)
- Balanced output eliminates the need of special auxiliary motors thereby reducing the cost of auxiliary motors
- Maintenance free, being fully static
- Low noise level
- Underslung structure with IP65 protection class
- On line monitoring
- Event and Data logging facility
- Natural cooled

Application

Converts third rail DC input voltage with wide variation to stabilized three-phase, 415V, 50 Hz voltages for safe and reliable operation of electrical equipment in underslung metro vehicles.

Technical specifications

(A) Input

Factors	Values
Nominal Voltage	750 V DC Range 500 – 950 V DC Acceptable ripple 4.5%

(B) Output

Factors	Values
Output power	100 kVA, 0.8 pf (at nominal operation)
Over load	200% for 5 seconds
Voltage	Three-phase, 415 V AC ($\pm 5\%$)
Waveform	Close to sinusoidal
Total Harmonic distortion in voltage	<10%
Efficiency	>93%

(C) General

Factors	Values
Operating ambient temperature	0 to 70°C
Cooling	Natural
Display & Communication part	Vacuum fluorescent display (VFD and RS232, CAN part for data retrieval)
Control Voltage	Nominal 110 V DC (77 to 137.5 V DC)
Weight	~ 1200 Kg
Envelope size	2100 x 1650 x 700 (LxWxH) in mm



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