



Autometers Alliance Ltd

DC INPUT 5kW

DC to DC UNDERSLUNG CONVERTER



Autometers Alliance Ltd offers underslung 5 kW 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 output (6 – 12 V DC adjustable)
- Wide DC input variation (500 – 950 V DC)
- Maintenance free, being fully static
- Low noise level
- Underslung structure with IP65 protection class
- On line monitoring
- Event and Data logging facility
- Output galvanically isolated from input
- Natural cooled

Application

Converts third rail DC input voltage with wide variation to stabilized 6 - 12 V DC (capacity 417 Amp) for the safe and reliable operation of DC motor braking, for 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	5 kW (nominal operation)
Over load	6 kW for 5 seconds
Voltage	6 - 12 V DC
Output voltage ripple	<5%
Output DC current ripple	<3%
Efficiency	>80%

(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)
Weight	~ 200 Kg
Envelope size	805 x 480 x 700 (LxWxH) in mm



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