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The high efficient & lightweight 45 kW ATRU was designed and developed by EUROATLAS for the Airforce of India for the latest aircraft generation of the EMBRAER 145 AEW & C for powering the onboard aircraft radar system developed by DRDO India.

The EMB145 aircraft is one of the most advanced and affordable Airborne Early Warning & Control aircraft which is currently available on the market.

The ATRU fulfils exceptional demands and it meets all environmental requirements of common military standards for airborne equipment.



For Military Aircraft

Standard Features

- Wide temperature range
- High efficiency > 95%
- Low weight and size
- Power density >1 kW/kg
- High reliability
- RTCA / DOD 160D
- MIL-STD 810E, 704E

Application

• Military Aircraft Radar

Support Service

• Complete Integrated Logistic Support (ILS)

Key Features of the ATRU

- 18 pulse rectifier
- Input EMI supression filter
- Output filter
- Build in monitoring electronic
- Front panel LED indicators & external monitoring interface conector
- Power / weight ratio: > 1.0 kW/kg
- Autotransformer with strip wound core
- MTBF: > 75.000 h
- Operating temperature range: -40°C up to + 70°C
- High reliability by using passive components
- MIL-STD 810E, 704E

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Electrical Specifications

Input

Output

Environmental Specification

Temperature range -40°C to +70°C (operation) -55°C to +100°C (storage)

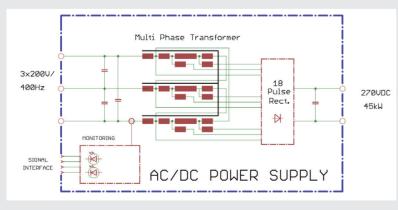
Humidity	. < 95%
Shock	.30 g/2.5 ms, 25 g/6 ms, 15 g/20 ms
	according to MIL-STD 810 E
Vibration	.Random, 15 g RMS
Altitude	.4.4 kPa (20.000 m)
EMC	.According to RTCA DO160-F

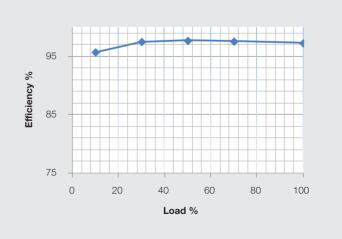
Protection.....IP 20 according to DIN 40050

Physical Characteristics

Design Characteristics

Power per weight/ per volume1,500 W/kg, 28.9 kW/ltr. Dielectric resistance > 100 MOhm MTBF...... > 75,000 h





ATRU 2052 Block diagram