

Frequency Converters & Shore Power

CAPABILITY SHEET - ROTARY + STATIC + SHORE SUPPLY (50/60/400 HZ) - ENGINEERED TO ORDER

THE SYSTEM

WHAT	Frequency converters and shore power supply systems - the bridge between grids that disagree: 50 to 60 Hz for ships, 50 to 400 Hz for aviation.
OUR ROLE	Neometrix engineers the sets, converters, stations, cable systems, controls and installation, then tests, commissions and supports through life.
STATUS	Engineered to order; quoted across rotary and static frequency-converter requirements. No delivered converter of this class is claimed.

THE MACHINES

ROTARY SETS	Motor-generator pairs on one bedplate, 10-500 kVA class - galvanic isolation by construction, sinusoidal output, surge-proof by rotating inertia.
STATIC SFC	Rectifier - DC link - inverter: precise, efficient, filtered - built fixed or trolley-mounted for outfitting berths, test shops and flight lines.
SHORE SUPPLY	Berth connection stations with protection, metering and interlocked connectors - plus motorised cable reels, davits and festoons across the brow.

THE RULE

THE DIALECT PROBLEM	Equipment speaks the grid it was built for - a 60 Hz fleet against a 50 Hz country, a 400 Hz flight line, imported machines far from home.
DEFEND THE LOAD	The bridge is also a filter: isolation, tight regulation, clean waveforms and managed harmonics - the load never knows the crossing happened.
SIZE TO BEHAVIOUR	Loads are sized by behaviour, not nameplate - inrush, duty and growth - with protection coordinated end to end and proven in commissioning.

DISTINCT & HONEST

THE HERITAGE	The delivered 400 Hz aircraft ground-power line is this discipline's longest-spoken dialect - the same conversion philosophy, decades on the flight line.
OUR FRANCHISE	Sets, converters, stations, cable systems, controls and installation are ours; machines, semiconductors and protection relays are bought-in certified.
ENGAGEMENT	Send the loads, the grids and the site to sales@neometrixgroup.com for a clause-by-clause compliance matrix in two working days.

DEFENCE PROGRAMMES DESK

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