

Control Systems

Hydraulic Control Unit

- Designed for EMC to DEF STAN 59-41 (Land Class A) and DEF STAN 61-5 Part 6
- LRU containing multiple cards (microprocessor, digital & analogue I/O, PSU & filter, reversionary PLD)
- Isolation of outputs for EMC
- Power - 28VDC
- Excellent reliability growth trials performance

Engine & Transmission Control System

- Comprises 4 units - engine junction box, warning light box, electronic control unit, engine temperature sensors
- Interfaces the new engine and automatic transmission to the existing vehicle control/instrumentation and electrical system
- Full suite of interconnecting cables for vehicle installation
- Power - 28VDC

Power Systems

System Power Distribution Unit

- Designed to EMC to DEF STAN 59-41 (Land Class A) and DEF STAN 61-5 Part 6
- Power distribution system to integrate Bridge Layer System into Abrams Tank Chassis
- Provides additional logic control
- Distribution of 28VDC vehicle supply to bridge laying hydraulic system
- Power - 2.25kW

Sonar 2087 Power Supply

- Fast rise time of 4kV/ms
- Sonar towed array power supply
- Low ripple < 10mA
- Up to 1000Vdc output
- Modules individually monitored by embedded processor & SOPC
- Integrated communications between modules and external system
- Hardware safety trips
- Constant current and voltage switch mode
- Five individual serial comms links (RS485 & RS232)



Power & Control Solutions



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Power & Control Solutions

Ferranti Technologies Ltd offers a comprehensive range of design engineered products that are tailored to suit customer requirements. Our engineers work closely with customers to ensure their requirements are correctly interpreted in order that the resulting solution is fully compliant.

Static Power Converters & Inverters

- 115V/230V ac Variable Frequency to
- 115V/230V ac 400Hz Fixed Frequency
- 110V/220V ac 60/50Hz Domestic Power
- 28V dc to 115V 400Hz ac
- Power - 500VA to 3KVA
- Efficiency > 85%
- Designed to AMD 24/DO-254/DO-178



Transformer Rectifier Unit

- 115V ac 3 phase 400Hz to 28V dc
- Power Rating 200Amps
- Up to 300% Overload Capability
- Efficiency > 88%
- Full BITE



DC-DC Converter

- Maintains 28V dc Critical Power
- Input as low as 8V dc
- Power 750 Watts
- Utilises Novel Boost Converter
- PLD Controlled Multi Mode Operation
- Full BITE



Emergency Flotation PSU

- Independent power for up to 10 minutes
- Integrated Crash & Water Sensors
- Manual Override Capability
- Mass < 1kg (~2lbs)
- Potential for Multi Devices per Unit
- UK MoD Qualified



Motor & Generator Control

- Integrated Power & Control
- Power up to 40kW
- Low Exported Ripple EMC Compliance
- Thermal & Overload Protection
- High Power Density
- Design for High Reliability/Harsh Environments



Ferranti Technologies excels in the custom design of complex electronic, electrical and mechanical solutions in the fields of power supplies, power conversion and electronic and motor control to the aerospace and defence industries. Our multi-disciplined engineering team is able to transform your most difficult technical requirements into qualified, production ready designs.

Custom Design

Electronic/Electrical/Mechanical

Power Supplies - Internal/External

Power Conversion

Electronic & Motor Control

Control Panel Assemblies

Hardware - Analogue, Digital, Electronic, Electrical, Mechanical

Software - Real Time Control Systems, RS232, RS422, Mil 1553, ARINC 429, CANBUS, Ethernet

Safety Critical - DO-254/DO-178B

Power from 200W to 40kW

PCB Design & Manufacture

High Efficiency <85%

Harsh Environment - -55 C to +85 C

EMC, EMP, HIRF Compliance

High Reliability

Project Management - DOORS, MS Project, GRESS, eRoom

ILS - Reliability Predictions, FMECA, Technical Publications, Spares Provisioning, Obsolescence

Customer Logistics Support - Electronic, Electro Mechanical

In-House UKAS Approved Environmental Test Facility - HALT/HASS, EMC Pre-Compliance

Accreditations - BS EN ISO 9001 (TickIT), AS9100, EASA Parts 21G & 145, Def-Stan 05-123

Contract Manufacture of Complex Avionic & Electronic Assemblies