



Ferguson Shipbuilders Ltd.

Marine Approved UPS Systems 7 kVA Single Phase and 15 kVA Three Phase

Ferguson Shipbuilders Ltd. won a competitive tender contract worth £20 million to build two new diesel/electric hybrid ships for CalMac Ferries Ltd. and subsequently awarded the UPS contract to Harland Simon UPS Ltd. to supply the AC UPS systems.

CalMac operates 31 vessels on 25 routes providing a lifeline passenger, vehicle and shipping service to the Scottish West Coast and Clyde Estuary Islands.

The new ships required UPS systems to maintain essential supplies required to operate the vessel when in service which carries members of the public and therefore are required to meet or exceed certain statutory requirements, including in the case of the UPS systems Lloyds marine approval.

Harland Simon used its experience in designing bespoke systems to provide two AC UPS systems from the **Harland ProtectUPS® - Marine** range for each of the new ships, leveraging the benefits of utilising COTS UPS products from the Eaton product family.

The COTS products were packaged in Harland Simon's IP54 marine enclosures, to provide a marine system capable of achieving Lloyds marine approval.

The solutions included 10 year design life batteries, manual bypass facilities, marine EMC filters and anti-vibration mounts.

Harland Simon manufactured the units and acquired the Lloyds Approval Certificate following a Factory Acceptance Test carried out in its Milton Keynes factory before shipping the units to Port Glasgow.

The hybrid ships: MV Lochinvar and MV Hallaig are said to be more environmentally friendly than current models due to small diesel generators and electric battery banks reducing fuel consumption.

The first ship is expected to be operating by mid-2013 with the second following in 2014.

"Tec-Source EECS chose HSUPS as they offered commercially acceptable units which met our exacting technical and reliability criteria for what are very innovative diesel electric propelled vessels. As these vessels will operate a 'lifeline' service to the Western Islands reliability is vital in order to maximise availability of that service",
David Henderson, Project Manager, Ferguson Shipbuilders.



- » **Harland ProtectUPS® - Marine**
- » **7 kVA Single Phase 9355 M**
- » **15 kVA Three Phase EXRT**
- » **IP54 Enclosures**
- » **10 year life batteries**
- » **Lloyds Approved**