



General Dynamics

Rugged Case Mounted 3 kVA AC UPS

General Dynamics delivers capable, relevant and affordable products and services through a culture focused on quality, innovation, continuous improvement, integrity and ethical behaviour. As a recognised supplier of power solutions to the Defence industry, Harland Simon UPS Ltd. was approached by General Dynamics.

In January 2011, General Dynamics contracted Harland Simon with a requirement for 50+ rugged case mounted UPS systems. These were required by the UK MOD as an addition to an existing contract. The UPS was omitted from the original design and identified as a critical part of the system to protect sensitive communications equipment from potentially damaging power conditions and to guarantee continuity of supply during power loss, generator re-fuelling, etc. The UPS was needed urgently to catch-up with the existing long term project and identified as an Urgent Operational Requirement (UOR).



During consultation, Harland Simon offered various possible solutions. The final solution was a variant of the successful TALON UPS which has been provided to the UK and Dutch MOD's over the past 5+ years via BAE/Selex/EADS/Paradigm. General Dynamics needed a lighter version with additional network capabilities and higher EMC standards, but delivery was critical.



In February, Harland Simon submitted detailed technical quotations and specification to meet General Dynamics standards. In March HSUPS supplied a prototype demo unit and in early April HSUPS received the order based on a very short and tight delivery schedule. Later in April HSUPS supplied standard commercial equipment for connectivity testing and weight models for system layout design. May and June was spent designing, testing and resolving system integration issues. 60+ rugged final design products were delivered between July and October in accordance with the agreed delivery schedule.

Andy Parfitt, Sales Director HSUPS, said *"the main challenge on this project was the tight timescale, we only had a few weeks to modify an existing design which was followed by a condensed production phase of 60+ systems"*.



Other Rugged Case Mounted UPS Projects

BAe Talon x 25+ units - 3 kVA/10 minute UPS built into a NATO Rugged Transport Case suitable for Harsh Military application using COTS equipment

BAe Falcon x 40+ units - designed, manufactured, type tested and certified 25 x Rugged Case Mounted Pallet 3.8 kW/5 minute custom UPS