

## Life Supporting Power



Power solutions specialist, DMS technologies, has worked in partnership with defence contractor to provide a life supporting power solution for their new portable citadel.

When criminal, terrorist or pirate attacks occur the key requirement is to ensure personnel are safe and secure. This is a transportable, self-contained citadel that provides an effective and affordable safe house solution. Ballistic steel lining provides security against attack, whilst silent running helps to keep personnel covert. CCTV and inbuilt communication systems allow the occupants to monitor the situation whilst contacting help.

### Key Product Features

- 20ft ISO Container - wherever a container can be placed, a safe house can be installed
- Ballistic steel lining, certified to BS EN 1063 Classes BR5NS (Kalashnikov) and BR6NS (NATO 7.62mm)
- Power solution providing independent running time up to 4 days
- Communications equipment
- Air conditioning designed for maximum 55°C and 80%RH
- Covert CCTV
- Toilet enclosure with chemical toilet and sink
- 2 fresh water tanks, capacity 460 litres
- Comfort seating and bunks for up to 24 personnel
- Storage for first aid packs, food and limited personal effects



### The Power Solution

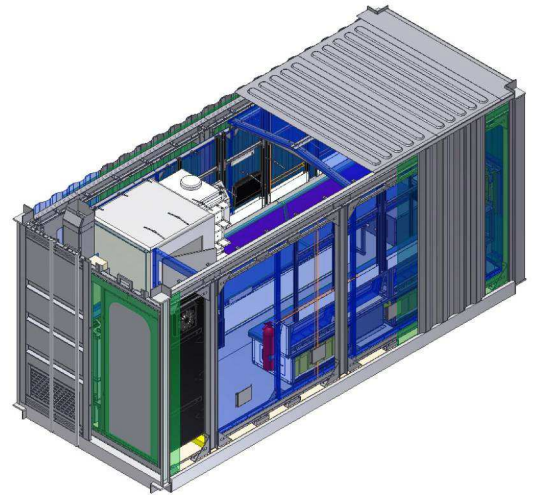
DMS technologies were tasked with designing a complete power solution to provide a minimum of 96 hours independent running in the event that the mains umbilical cord is cut. The power drain of all systems exceeded the abilities of a reasonable sized battery bank and so a generator partner was brought onto the project.

Harrington Generators International (HGI) and DMS technologies have worked together for a number of years providing power solutions for Military and Rail applications. It seemed a natural progression for us to work together to design this solution.



Based on the application it was specified that the unit should be as quiet as possible, particularly when first activated. To achieve this it has been designed so that in the event of the mains being disrupted the power system would start running on the battery banks.

The following operational times are based on ambient conditions of 35°C and 80%RH and in those conditions the batteries will provide approximately 36 hours of almost silent power. When the battery system reaches a low voltage the control system provides a signal to the switch over panel, designed by HGI's engineering team, to start the generator. This is a super-compact "silent" generator that allows for a further 60 hours operation. The generator has been sized such that there is sufficient power to provide further charge to the batteries whilst running all internal systems. Once the fuel is expended, the batteries then provide power for approximately a further 10 hours.



### **About DMS technologies**

DMS technologies is an ISO9001:2008 accredited company with over 25 years of providing battery power systems across many sectors including military, transport, aviation, marine, rail network and other industrial sub-sectors.

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### **About Harrington Generators**

Harrington Generators International (HGI) is one of the leading providers of military specification integrated power solutions which use conventional fuels or green alternatives.

HGI has over 30 years experience of designing, developing and producing high-quality power solutions which deliver what you want where you want it no matter how challenging. We are committed to providing professional and economic solutions tailored to your power requirements whatever they may be or wherever they may be needed.

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