

## Harsh Environment Power Solutions

### Indoor and Outdoor Power Solutions

**H**arland Simon is an independent supplier of standard OEM UPS and a leading UK manufacturer of custom designed UPS systems built into rugged IP rated enclosures to provide continued protected power in harsh environments.

### Harland ProtectUPS® Range

The Harland ProtectUPS® is a range of rugged power protection systems that has been specifically designed and manufactured to provide uninterrupted power to support critical equipment applications in harsh conditions.

Models vary according to the end application and are available from 1 - 800 kVA with many specific options:

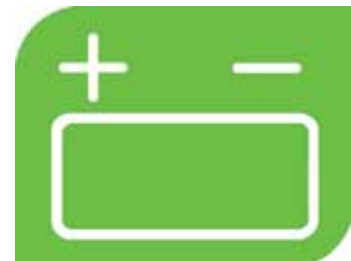
- **Harland ProtectUPS® - Defence.** Rugged case mounted AC UPS suitable for field operation
- **Harland ProtectUPS® - Industrial.** Integrated high IP enclosure mounted AC & DC UPS
- **Harland ProtectUPS® - Marine.** Marineised IP enclosure with AVM and integrated distribution
- **Harland ProtectUPS® - Transport.** Rugged integrated AC & DC UPS for road and rail



### Lead Crystal® Batteries

Lead Crystal® batteries can be used in any application where lead acid/gel batteries are used.

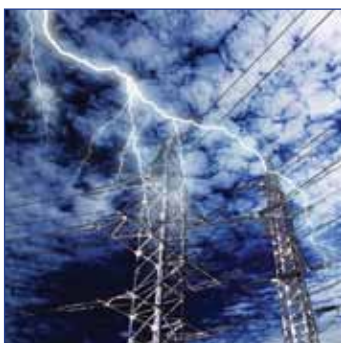
- Form | Fit | Function
- Very wide operating temperatures (-40°C to +65°C)
- Up to 99% recyclable
- Greener - ISO 14001 certified
- Safer - no toxic fluid, no hazardous emissions, no risk of explosion
- Significantly much greater cyclic life
- Discharge down to 0 v - full recovery
- Higher capacity at lower temperature than VRLA
- 3 year warranty (longer on application at an additional cost)



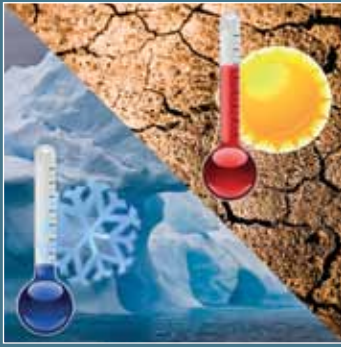
### Marine AC and DC Power Solutions

Harland Simon can supply a wide range of single and three phase rugged marine certified power solutions.

- Single and three phase marine AC UPS
- Custom DC UPS solutions
- DC trippers, chargers, inverters and power supplies
- Customised rugged products - Harland ProtectUPS®
- Certification to Lloyd's, DNV-GL or ABS
- AVM and high IP rating



- » Harland ProtectUPS®
- » Lead Crystal® Batteries
- » Marine Approved UPS Products
- » Outdoor AC UPS Enclosure Systems
- » Extended Runtime Battery Solutions
- » Indoor DC Products
- » Wide Temperature FALCON UPS
- » Maintenance, Service and Disposal



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## Indoor and Outdoor Power Solutions

### Outdoor AC UPS Power Module Enclosure Systems

The Novus Micro series provides constant and reliable power for access control, security, public utility and telecommunications applications in a compact all in one enclosure.

For lower power applications in a single, easy to install cabinet for the Novus FXM series.

Optional add on battery cabinets for longer runtimes are available.

- Wide operating temperature range of -40°C - 74°C
- Temperature compensated battery charging (protects batteries)
- 300 w and 1000 w - 230 vAC UPS modules available
- External communications via RS-232 port or an optional Ethernet SNMP
- User friendly LCD display allows 'at a glance' monitoring



### Extended Runtime Battery Solutions

Harland Simon offers a comprehensive range of extended runtime battery solutions up to 24 hours.

- Fully assembled cubicles
- Loose battery modular system
- 19" rack mounting trays
- 19" complete enclosure systems
- 5, 10 and 20 year battery life



### Indoor DC Products

Harland Simon offers a comprehensive range of DC power protection products.

- Trippers (DCT range) - 24 v to 110 v, 1 - 50 A loads
- Chargers (DCC range) - single or three phase, 1 - 50 A loads
- Power supplies (DCP range) - 10 w - 5 kW
- DC UPS (DCU range) - 12 v - 270 v, several hours
- DC rectifiers - 12, 24 and 48 vDC modular power systems
- Bosch Praesideo and Pleana battery chargers
- DC - AC industrial single/three phase modular inverters



### Falcon UPS (USA)

The Falcon range is a US agency-certified (UL cUL and CE), true online wide temperature power protection UPS available in:

**Rack** 1 - 3 kVA | -30°C to +65°C and **Tower** 1.5 - 3 kVA | -20°C to +55°C

- More efficient internal cooling methods
- High temperature rated plastics used in construction
- All components (plastic, batteries and electronics) rated for operation in extended temperature ranges
- Overall UPS reliability is much higher than regular UPS



### Maintenance, Service and Disposal

Harland Simon offers high class service solutions throughout the UK.

- UPS and generator maintenance contracts
- Electrical installation
- Battery replacements
- Relocation and expansion
- Disposal to COSHH regulations



Harland Simon UPS Ltd • Bond Avenue • Bletchley • Milton Keynes • MK1 1TJ  
 T: 01908 56 56 56 • E: enquiries@hsups.co.uk • W: harlandsimonups.com

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