

Harland Simon Reference Site List

Revision Number 06-2009

harland simon power solutions



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Public Sector

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Contacts



Harland Simon UPS Ltd
Bond Avenue
Bletchley
Milton Keynes
MK1 1TJ

enquiries@hsups.co.uk
www.harlandsimonups.com

T: 01908 565656
F: 01908 568400

Sales: **Andy Parfitt** andy.parfitt@hsups.co.uk
 Paul Lane paul.lane@hsups.co.uk
 Mark Lloyd mark.lloyd@hsups.co.uk
 Scott Billson scott.billson@hsups.co.uk

Technical: **Neil Sydenham** neil.sydenham@hsups.co.uk
 Liam Jackman liam.jackman@hsups.co.uk

Logistics: **Evelyn Davies** evelyn.davies@hsups.co.uk
 Debbie Brown debbie.brown@hsups.co.uk

Accounts: **Ken Smith** ken.smith@harlandsimon.com

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Commercial



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Building Services

Tech Mahindra
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Communications/IT

British Telecom
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ATG Airports



Site Services

Bookers Cash & Carry



UPS Partnerships

Master Power
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Chloride



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Building Services



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<u>Job Title</u>	<u>Job Number</u>	<u>Type of Installation</u>	<u>Case Study</u>
Tech Mahindra - UK Head Office	B05605	Supply, delivery and commissioning of 30kVA N+1 UPS System	
PPI Engineering	B06412	Supply 110v DC Tripper	

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Building Services



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➤ [Tech Mahindra \(UK Head Office\)](#) [BO5605](#)

Product	Value (£)	Date
Dual Redundant N+1 30kVA/1 hour PW9355 UPS	40K	2007
60kVA/7 minute PW9390 UPS	15K	2008

In 2007 Harland Simon were awarded the contract to supply an N+1 30kVA Powerware 9355 UPS System to support Tech Mahindra's main data centre.

Site services include the specialised delivery and on-site battery rebuild, specified to site constraints and the commissioning.

In addition, we were also awarded the maintenance contract for the UPS System.

In 2008 we supplied a 60kVA UPS to support office equipment.

➤ [PPI Engineering](#) [BO6412](#)

Product	Value (£)	Date
110v DC Tripper	3.8K	Jan-09

PPI needed a cost effective 110v DC Tripper for their end client, National Grid in Gibraltar for their Substation Tripping.

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Communications/IT



<u>Job Title</u>	<u>Job Number</u>	<u>Type of Installation</u>	<u>Case Study</u>
<u>British Telecom (BT)</u>	B04448	Supply AC UPS with Extended Runtime Battery Packs for 1-7 hour applications	
<u>DISTEC</u>	B04846	Design of Power Section fitted within Mobile Power Carts	
<u>Stratus Computer Technologies</u>	B05291	Supply 4 x 10kVA N+1 AC UPS for delivery to South Africa	
<u>PCMS Group</u>	B05422	Supply, Installation and Commissioning of 160kVA UPS System	
<u>Initial</u>	B05373	Supply Custom Built DC UPS	
<u>Optilan UK</u>	B05339	Supply 14 x Dual DC Systems	
<u>Chubb</u>	B06203	Supply 3kVA UPS & 3 hour Battery Packs for BNFL	
<u>PCMS Group</u>	B06231	Supply 30kVA UPS	
<u>Nissan</u>	B06254	Supply 80kVA Riello UPS	
<u>Broadcast Sound</u>	B06340	Supply DSM 48/8 Charger plus Batteries	
<u>JP Power</u>	B06378	Supply 24vDC Marine Charger	
<u>ATG Airports</u>	B06387	Supply 9 x PW9130, 5 x 700VA, 4 x 1kVA UPS	
<u>Optilan UK</u>	B06474	Supply 3 x DC 19" Rack UPS System & Batteries/450W/12hours	
<u>ATG Airports</u>	B06569	Supply 7 x PW9130	

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Communications/IT



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➤ British Telecom (BT)	B04448		
Product		Value (£)	Date
25+ Battery Packs		50K	1998 - ongoing
200+ Modifications		100K+	2003 - ongoing

Eaton Powerware are the nominated approved supplier to supply AC UPS Systems to British Telecom.

Eaton have nominated Harland Simon as their Power Partner to supply Extended Runtime Battery Packs for 1,2,4 & 7 hour applications.

In 2003, we were also awarded the 3 year contract to modify the standard PW9120 UPS to include filters, UK connectors, etc. We now have a production unit for BT in which we modify 50-100 systems per month.

➤ DISTEC	B04846		
Product		Value (£)	Date
50+ Mobile Power Carts		50K	2006
Extended Warranty		9K+	2006 - ongoing

Harland Simon designed the Power Section to fit within the Mobile Power Cart for use on NHS wards to enable bedside access to patient records via a networked computer.

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➤ [Stratus Computer Technologies](#)

[B05291](#)

Product

4 x 10kVA N+1 AC UPS Systems

Value (£)

28K

Date

2006

Harland Simon rapidly supplied 4 x 10kVA Single Phase AC UPS Systems for delivery to the client's warehouse in order to meet their shipping deadline to South Africa.

➤ [PCMS Group](#)

[B05422](#)

Product

160kVA AC UPS

Value (£)

32K

Date

2007

Harland Simon were awarded the contract to supply, deliver, install and commission a 160kVA Powerware PW9390 UPS System. In addition to undertaking the site services involved, we also arranged for the removal of the existing redundant UPS System and disposed of the batteries under our licence.

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Communications/IT



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➤ Initial	B05373		
Product		Value (£)	Date
27 x Custom DC Systems		12K	2006

Harland Simon were awarded the contract to supply Custom Built DC Systems of various sizes for use on a project in Ireland.

➤ Optilan UK	B05339		
Product		Value (£)	Date
14 x Dual DC Systems		26K	2006

Harland Simon supplied 14 x Dual DC Systems to supply 48VDC to the equipment.

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Communications/IT



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- [Chubb](#) [BO5373](#)

Product	Value (£)	Date
3kVA UPS & Battery Packs	5K	Sep-08

Supply 3kVA UPS and 3 hour Battery Packs to support Security Equipment at BNFL.

- [PCMS Group](#) [BO6231](#)

Product	Value (£)	Date
30kVA UPS	10K	Sep-08

Supply 30kVA UPS to support Data Centre Equipment, complete with Maintenance Equipment.

- [Nissan](#) [BO6254](#)

Product	Value (£)	Date
80kVA Riello UPS	12.3K	Oct-08

Supply 80kVA Riello UPS in addition to already supplied 200kVA UPS.

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Communications/IT



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➤ [Broadcast Sound](#) [BO6340](#)

Product

DSM 48/8 Charger plus batteries

Value (£)

2K

Date

Dec-08

Harland Simon have designed a range of Battery Chargers designed specifically for the Bosch-Prasideo System (Amplifier). This system is used for the purpose of Evacuation From Premises. Our Charger/Batteries enables the Amplifier to operate in the event of Mains Failure.

➤ [JP Power](#) [BO6378](#)

Product

24vDC Marine Charger

Value (£)

2K

Date

Jan-09

Harland Simon was asked to produce a replacement 24vDC system Marine Charger for a ship. The new system was self contained in its own IP54 Enclosure. All were manufactured and transported from our workshop.

➤ [ATG Airports](#) [BO6387](#)

Product

9 x PW9130

5 x 700VA

4 x 1kVA UPS

Value (£)

3.5K

Date

Jan-09

Supply above UPS for critical Airfield Ground Lighting Products.

DESCRIPTION



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Communications/IT



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➤ ATG Airports

B06569

Product

7 x PW9130

Value (£)

4.5K

Date

May-09

Harland Simon secured a major contract to supply 4 x PW9130 (1kVA Tower) and 3 x PW9130 (2kVA 19" Rack) UPS systems to Prestwick Airport for their Ground Lighting Products.

It was imperative that the Routing, Guidance and Surveillance Control System (PLC) was kept functioning at all times so we opted for the Eaton UPS to provide the critical level of protection (True OnLine) against the 9 main problems associated with AC Mains Power.

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Communications/IT



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➤ Optilan UK

BO6474

Product

3 x DC UPS

Value (£)

12K

Date

Apr-09



Optilan required a solution to provide 48VDC from a 120VAC Input source rated at 1.2kW with the ability to support this load for 12 hours in the event of mains failure.

Harland Simon fulfilled this application by supplying a modular DC PSU System along with loose 10 year Design Life Batteries for installation within the Optilan enclosure.



- DC Power Racks 'Ready To Connect' for Integration into 19" System Cabinets
- UPC3 (DC Controller) Easy to Configure, Adapts the System to Customer's End Application & Battery Parameters
- Up to 5 x Rectifiers in One Rack
- 24, 48, 60, 110 & 220VDC Output

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Site Services



Job Title

[Bookers Cash & Carry](#)

Job Number

BS4644

Type of Installation

Maintenance contract for UPS Systems located throughout their 200+ UK Stores

Case Study

DESCRIPTION



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Site Services



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➤ Bookers Cash & Carry (UK Stores)	BS4644		
Product		Value (£)	Date
Maintenance Contract		50K p.a.	2003 - ongoing

Eaton Powerware have the maintenance contract to maintain the UPS at all their 200+ stores throughout the UK. Eaton have nominated Harland Simon as their approved service partner to undertake all site preventative maintenance and call out to repair or replace faulty units.

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UPS Partnerships



<u>Job Title</u>	<u>Job Number</u>	<u>Type of Installation</u>	<u>Case Study</u>
<u>MasterPower</u>	B06215	Supply 12 hour Battery Pack	
<u>Chloride</u>	B06221	Supply 3 x 2 hour Battery Packs	
<u>Chloride</u>	B06477	Battery Pack for Active G4 2000	
<u>Eaton</u>	B06508	Battery Pack for Pulsar	
<u>Chloride</u>	B06554/5 & 64	Charger and Battery Packs	

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- [Master Power](#) [B06215](#)

Product	Value (£)	Date
12 hour Battery Pack	4K	Sep-08

Supplied 12 hour Battery Pack to support Chloride 3kVA Active UPS.

- [Chloride](#) [B06221](#)

Product	Value (£)	Date
3 x 2 hour Battery Packs	4K	Sep-08

Supplied 3 x 2 hour Battery Packs to give Extended Runtime to Chloride Active UPS.

- [Chloride](#) [B06477](#)

Product	Value (£)	Date
Battery Pack	1.5K	Apr-09

Supplied Battery Pack to provide an Extended Runtime for the Active G4 2kVA UPS.

DESCRIPTION



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UPS Partnerships



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➤ Eaton	BO6508		
Product		Value (£)	Date
Battery Pack		1K	Apr-09
Supplied a Free Standing Battery Pack for the Pulsar 1500 to extend the Runtime and to save on space as the UPS can be positioned on top of the Battery Pack.			
➤ Chloride	BO6554/5 & 64		
Product		Value (£)	Date
Charger & Battery Packs		5K	May-09
For Network Rail.			

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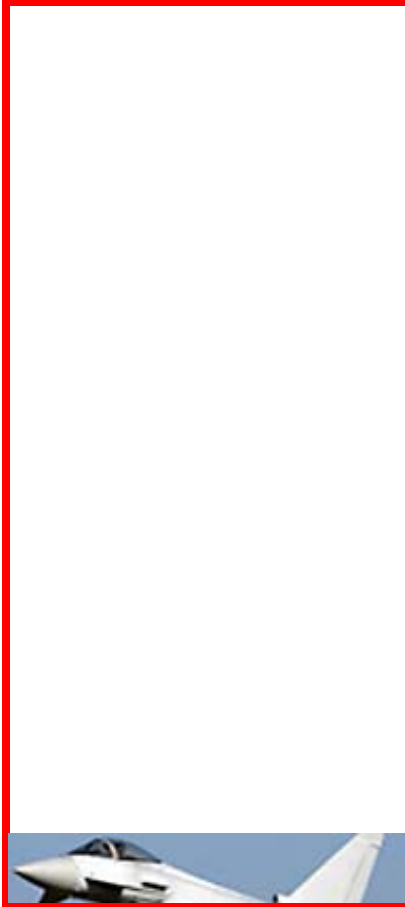
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Defence



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Air



Land

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Raytheon - ASTOR
Bae - FALCON
Paradigm

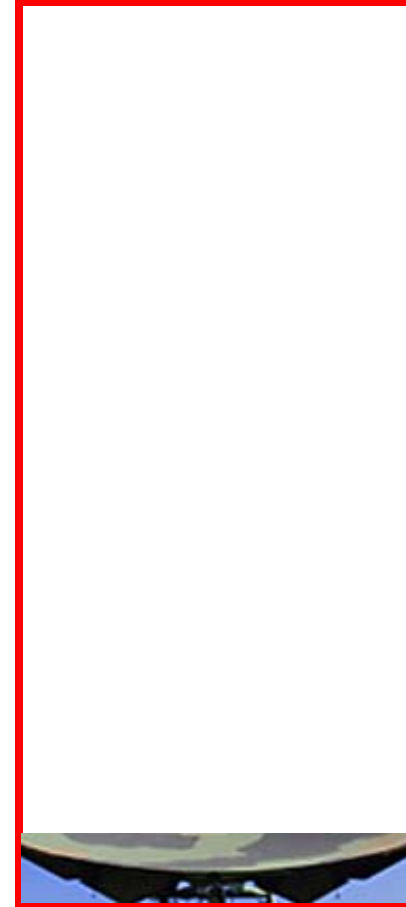


Sea

Alenia Marconi - Portsmouth
Alenia Marconi - Chelmsford
Aish Technologies - Poole
Ultra CCS - High Wycombe
BAe Systems - Royal Navy Ships
Ultra CCS - High Wycombe
XP - Stealite
US Navy - London
BAe Systems - DNA2



Joint Services



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<u>Job Title</u>	<u>Job Number</u>	<u>Type of Installation</u>	<u>Case Study</u>
<u>Alenia Marconi - Chelmsford</u>	BO1804	Supply 30 + AC UPS rated at 2kVA/5 minute. Ruggedising standard COTS equipment including component and other mechanical fixings	
Bae Christchurch - TALON	BO3044/3645/4720	Design a 3kVA/10 minute UPS built into a NATO Rugged Transport Case suitable for Harsh Military application using COTS Equipment	
Raytheon Harlow - ASTOR	BO2785	Design of both AC UPS & DC UPS to comply with detailed specification. Systems were Installed and Independent Type Testing carried out	
<u>Bae Christchurch - FALCON</u>	BO5612	FALCON UPS Systems	
<u>Paradigm</u>	BO6506	Talon Spares	

DESCRIPTION



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➤ [Alenia Marconi - Chelmsford](#) [BO1804](#)

Product

30 x 2kVA/5 mins AC UPS Mobile Radar

Value (£)

50K

Date

2000 - 2002

Over a 3 year period Harland Simon supplied over 30 x AC UPS Systems. These were designed to replace existing units that were deemed unreliable.

Harland Simon modified a COTS Invensys UPS to make it suitable for the application. This included Ruggedisation of the Electrical Component Fixings and Mechanical changes to the Enclosure Fixings and Connectors.

➤ [Paradigm](#) [BO6506](#)

Product

Talon Spares

Value (£)

80K

Date

Apr-09

Harland Simon provided 4 x complete ??? Talon UPS plus various spares to cover the long term logistic support of the Talon Project.

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➤ Bae Systems Christchurch - TALON

BO3044

Product	Value (£)	Date
Prototype 3kVA AC UPS TALON	NIL	2003
12 x Production AC UPS TALON	90K	Aug - Nov 2004
14 x AC UPS TALON	£150K	2006



Harland Simon UPS designed a UPS and battery module using COTS equipment to be suitable for harsh military applications and environments.

The design is to incorporate the UPS and battery modules into an EDAK military transportable case protected by IP67. In operation the UPS is still protected to IP43. The UPS has been tested for direct connection to a mobile generator via specified military connector and FEDPS Terminator.

The UPS and battery modules are easily field replaceable via HYPERTAC plug and mate connectors.



- Portable Military Application
- 3kVA/2.1kW 10 minute High Performance
- VRLA Battery 6U EDAK Military Transport Case
- Modular Design (3 x 2U modules. Max. 35kg)
- Independent Environmental Testing
- IP67/IP43
- Military Connection
- Fitted with FEDPS Protective Conductor Loop Monitoring

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➤ Raytheon Harlow - ASTOR

BO1804

Product

50 x 3kVA/8 minute AC UPS
30 x 2kW N+1 28VDC PSU

Value (£)

300K

Date

2000 - 2002



Harland Simon UPS designed a UPS and battery module using COTS equipment to be suitable for harsh military applications and environments.

The system comprised of 3 modules, 3kVA AC UPS, 8 minute battery and 28VDC N+1 DC PSU.

The AC & DC UPS were designed to be a high quality but competitively priced solution for a military application, which would also guarantee long term availability of spares and replacement units. All units were subject to DEF STAN type testing at independent test houses.



- Custom Built Lightweight Aluminium 19" Rack
- Independent Environmental Tested - EMC, Shock, Vibration, etc.
- Battery Heater for Low Temperature Start Mobilisation
- Conformal Coated PCB
- Zero Halogen Cabling
- Ruggedised
- Custom Made Interconnection Leads
- Modular N+1 Redundant DC PSU

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➤ [Bae Systems Christchurch - FALCON](#) [BO5612](#)

Product

Design, Manufacture, Type Test & Certify Falcon UPSs

100 x 19" Rackmounted 3.8kw/30 mins Rugged Custom UPS

25 x Case Mounted Pallet 3.8kw/5 mins Rugged Custom UPS

Increment C

Value (£)

1.5M

600K

Date

2007 - 2012

Jun-09

In 2007 BAe Systems awarded Harland Simon the contract to Design and Supply a range of UPS Systems to support the Falcon System which will replace the Ptarmigan System.

The Design Phase lasted 6 months and included detailed Design of Power Electronics making them suitable for the Harsh Environment. The Equipment was designed in Strict Compliance with a Detailed Specification and then subjected to stringent Independent Type Testing to prove Full Compliance. The Customer Acceptance Trials will start mid 2008 with the first batch in Main Deliverable Items to complete early 2009. Deliveries will then continue until 2012 with Field Logistics Support until 2019.



- Container or Pallet Mounted
- High Power 3.8kw / 30 minute UPS
- Rugged Design
- Modular Design (max. 50kg Two Man Lift)
- Independent Environmental Testing
- Min. IP43 Operational Protection
- Military Connectivity with optional FEDPS Monitoring
- 10 + year ILS & CLS Support Package



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<u>Job Title</u>	<u>Job Number</u>	<u>Type of Installation</u>	<u>Case Study</u>
Alenia Marconi - Portsmouth	BO1935	Design 25 x 1kVA AC UPS Systems as a direct replacement to FORM/FIT/FUNCTION	
Alenia Marconi - Chelmsford	BO3019	Design and Supply of Prototype Tight Specification DC Power Supply for MoD Ship Radar	
Aish Technologies - Poole	BO3129	Design and Supply 70 x 1kVA Naval Power Solutions	
Ultra CCS - High Wycombe	BO2900	Design and Supply a 6kVA/15 mins 19" Rackmount solution with a Low Magnetic Signature	
Bae Systems - Royal Navy Ships		Awarded Repair and Service Contract for 100 x AC UPS Systems	
Ultra CCS - High Wycombe	BO4086	Modification of 50 x 1kVA PW9120 UPS to allow Interfacing with Display Processor	
XP - Steatite	BO4355	80 x 1kVA XP SMX UPS built into Custom 3U Enclosure with Stepped Lid, RGB Display, etc.	
US Navy - London	BO3294	Replace 20 yr old Frequency Converters and provide Full Site Management & Commissioning	
Bae Systems - DNA2	BO5498	Provide 1 x COTS 11kVA Comet EX RT UPS	
Bae Systems - DNA2	BO5507	1 x Rugged 11kVA Comet UPS and Battery	
Bae Systems - DNA2	BO6081	29 x Rugged UPS and Battery	

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➤ [Alenia Marconi - Portsmouth](#)

[B01935](#)

Product

25 x 1kVA/10 mins AC UPS

Value (£)

50K

Date

2000

Harland Simon Designed and Supplied a UPS to replace a Discontinued UPS. This was a direct replacement for FORM/FIT/FUNCTION. The 1kVA UPS had the Type and Location of the Connectors specified, also the Air Flow within the Rack dictated an Angled Main PCB and Air Flow from the sides across the Components.

➤ [BAe Systems - Royal Navy Ships](#)

Product

Maintenance Contract

Value (£)

TBA

Date

2003 - ongoing

Harland Simon were awarded the Repair and Service contract to maintain over 100 x 1.5kVA AC UPS. Our contract is based on a Fixed Evaluation Price and Repair/Upgrade Price Per System. The units are reviewed yearly when the Ships dock for maintenance visits.

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- [Ultra CCS - High Wycombe](#) [B04086](#)
- | Product | Value (£) | Date |
|-------------------------|-----------|-------------|
| 50 x 1kVA/5 mins AC UPS | 60K | 2004 - 2007 |

Harland Simon Modified the 1kVA PW9120 UPS by Interfacing with the Display Processor Unit to give Remote Shutdown and Startup Control via and External 24VDC Supply. This was achieved by the use of a PIC.

- [US Navy - London](#) [B03294](#)
- | Product | Value (£) | Date |
|----------------|-----------|-------------|
| 3 x 160kVA UPS | 130K | 2003 - 2004 |

Harland Simon were awarded the contract to replace the 20 year old 50Hz to 60Hz Converters which support the US Navy 60Hz equipment at the UK HQ. Harland Simon's contract also included the Full Site Management, Detailed Reporting, Project Management, Design, CAD Drawings, Mechanical, Electrical, Communications, Painting & Decoration, Air Handling Systems as well as Training and Commissioning.

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➤ [BAe Systems - DNA2](#)

[BO5498/BO5507/BO6081](#)

Product	Value (£)	Date
1 x Standard COTS 11kVA Comet EX RT UPS	4K	Mar-07
1 x Rugged 11kVA Comet UPS & Battery	10K	Apr-07
29 x Rugged UPS & Battery	150K	June 2008 - 2014

In 2007 Harland Simon supplied BAe Systems with a Rugged 11kVA Comet EX RT UPS which was then Field and Type Tested by BAe. After this successful testing Harland Simon were awarded the order to Supply a further quantity of 29 Systems to fulfil the contract with Power Module deliveries up to 2011 and Battery deliveries up to 2014.

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➤ [Aish Technologies/XP - Poole](#)

[BO3129/3343](#)

Product

70 x 1kVA UPS

Value (£)

35K

Date

2003



Harland Simon UPS designed and built 70 x 1kVA Naval Power Solutions from COTS Modules for AISH Technologies/XP, Poole.

The UPS was purpose built in stainless steel for use in AISH Technologies Morpheus Console for the new Type 45 Destroyer class warship.

The Harland Simon UPS product was independently tested to various additional EMC and Environmental Levels to ensure it was fit for purpose.



- Custom Design & Build
- True On-Line 1kVA UPS with Separate Battery Pack
- Independent EMC and Environmental Testing
- Custom Footprint and Less than 15kgs
- Customer Specified Connectivity

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➤ Alenia Marconi Chelmsford

BO3019/3559

Product	Value (£)	Date
Prototype DC PSU	50K	2003
20 x Production Units	70K	2004



Harland Simon UPS designed a fully custom built Military high specification DC Power Supply for an MOD ship radar. The power supply is fed via a 600Hz input and has a QUAD +/-12/15V output with ultra low noise/ripple.

The DC Power supply was installed to power Type 42 radar systems.



- Linear DC PSU
- 600Hz Input
- QUAD DC Output
- Ultra Low Noise
- Compact Rugged Design
- Military Connectors
- Full Type Testing
- Base Mounted Heat Sink

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➤ Ultra CCS High Wycombe

BO2900

Product

20 x 6kVA/15 minute AC UPS

Value (£)

130K

Date

2003 - 2004



Harland Simon UPS designed a UPS system using COTS equipment to meet detailed customer specification and requirements on size, power, EMC and ruggedness.

The AC & DC UPS were designed to be a high quality but competitively priced solution for a military application, which also guarantees long term availability of spares and replacement units.



- Custom Built Stainless Steel 19" Rack
- Ruggedised UPS based on COTS UPS Module
- Plug and Mate Hypertac Military Connectors
- 15 minute High Performance VRLA Battery
- Total 7U Space
- Conformal Coated PCB's
- Zero Halogen Cabling
- Separate 3U UPS & 2U Battery Modules

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Sea



➤ XP Steatite

BO4355

Product

80 x 1kVA/5 minute AC UPS

Value (£)

100K

Date

2005 - 2007



Harland Simon UPS built a 1kVA XP SMX UPS into a custom 3U rugged enclosure complete with stepped lid, 10 year batteries, RGB display and 10 way connectivity and fuse distribution.



- Custom Design and Build
- 80 x 1kVA/5 minute AC UPS
- 10 year VRLA Batteries
- RGB Display
- 10 Way Connectivity & Fuse Distribution

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Lintott
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Blackburn Starling
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MCI Electrotechnics - North Sea
Hamworthy Combustion Systems
Electrical Power Engineering
James Fisher - Japan
ABMAS - North Sea
Peto - de Beers
Consafe - Karachaganak
British Gas - Trinidad
Silvertech - Russia
Monitor Oil - North Sea
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Silvertech - Dubai
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James Fisher
ICS TRIPLEX Silvertech
Wärtsilä
Blue Water Marine - Ship
de Viers Ship - Ship
Shell Oil - Ship



Transportation

Thales - Croydon Tramlink
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Chloride - London Underground
Optilan/Railtrack - Kings Cross



Utilities

British Nuclear Power (BNFL)
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Galliford Costain/Atkins Joint Venture
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Red Bull Racing (UK Factory)	B04791	Supply and DC Installation of 60kVA UPS	
Dorwin Gear (UK Factory)	B05273	Supply of AC UPS Systems to support motors in automatic door sensors	
Thales - Nexus Scada	B05570	Supply and Delivery of N+1 Redundant IP54 6kVA UPS System	
Lloret	B06245	Supply 21 x 700VA PW9120 UPS's	
Lintott	B06380	PW9120/2kVA/Wall IP54	
Lintott	B06396	PW9135/5kVA in Floor IP54	
Blackburn Starling	B06500	Supply 2 x 3PH UPS	
Blackburn Starling	B06527 - 31	Supply 5 x 2kVA PW9130 UPS	
Boulting	B06536	Supply 4 x 1kVA 110VAC UPS	
Glasswell & Last	B06578	Supply 2 x UPS Systems	

DESCRIPTION



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➤ [Aston Martin \(UK Factory\)](#) [B04233](#)

Product

AC UPS & Generator

Value (£)

37K

Date

2005

Harland Simon provided a 10kVA UPS and a 150kVA Generator to protect the Main Server Room and associated equipment including the administrative functions. We also undertook the complete AC Installation.

➤ [Red Bull Racing \(UK Factory\)](#) [B04791](#)

Product

60kVA AC UPS

Value (£)

13K

Date

2006

Harland Simon provided a 60kVA UPS to protect the Main Server Room and associated administrative functions. We also undertook the DC Installation and have an existing Maintenance Contract.

DESCRIPTION



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➤ <u>Dorwin Gear (UK Factory)</u>	<u>B05273</u>		
Product		Value (£)	Date
AC UPS		1K	2005 - ongoing

Harland Simon provide small Single Phase AC UPS Systems for use with Dorwin Gear's automatic doors and door sensors on an as need basis.

➤ <u>Thales - Nexus Scada</u>	<u>B05570</u>		
Product		Value (£)	Date
N+1 AC UPS		13K	2007

Harland Simon provided an N+1 IP54 6kVA UPS System complete with customer specified distribution housed within the Cooper B-Line Rack Enclosures. We also provided the Customised Bypass and Switching System between the UPS.

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➤ <u>Lloret</u>	<u>B06245</u>	Value (£)	Date
Product 21 x 700VA PW9120 UPS's		7.2K	Oct-08

Supplied 21 x 700VA PW9120 UPS's to support Control Equipment.

➤ <u>Lintott</u>	<u>B06380</u>	Value (£)	Date
Product PW9120/2kVA/Wall IP54		2.3K	Jan-09

Harland Simon supplied a UPS to back up a 1kVA Load for 8 minutes.
The UPS was needed to be in an IP54 Wall Mounted Enclosure.

➤ <u>Lintott</u>	<u>B06396</u>	Value (£)	Date
Product PW9135/5kVA in Floor IP54		8K	Jan-09

Harland Simon won a contract to supply a Free Standing IP54 Enclosure housing a Single Phase UPS to provide back up of a 5kVA load for 15 mins.
The system was supplied for a Yorkshire Water, Water Treatment Works.

DESCRIPTION



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- **Blackburn Starling** **BO6500**
- | Product | Value (£) | Date |
|-----------------------|-----------|--------|
| 2 x 3 Phase 10kVA UPS | 16K | Apr-09 |
- Contract to Supply 2 x 3 Phase UPS to support 10kVA for 30 minutes. The order consisted of the UPS, separate Battery Cabinet with 10 Year Design Life Batteries, External Maintenance Bypass Switch and Commissioning On-Site.
- **Blackburn Starling** **BO6527 - 31**
- | Product | Value (£) | Date |
|---------------------|-----------|--------|
| 5 x 2kVA PW9130 UPS | 4.5K | Apr-09 |
- Contract to Supply 5 x 2kVA Single Phase UPS to backup individual Panels for a United Utilites Water Treatment Works.
- **Boulting** **BO6536**
- | Product | Value (£) | Date |
|---------------------|-----------|--------|
| 4 x 1kVA 110VAC UPS | 5K | Apr-09 |
- Part of a contract to Supply 8 in total 110V Input/Output UPS rated at 1kVA to backup a 250VA Load for 30 minutes at various locations within Severn Trent Water Treatment Works.

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➤ Glasswell & Last

B06578

Product

2 x 2kVA UPS

Value (£)

6.5K

Date

May-09



Harland Simon won the contract to supply 2 x UPS Systems to provide backup power to a control panel ICA section containing 2 PLC's and remote slave control panels with remote I/O to the main PLC.

Each system comprises a 2kVA UPS and separate battery cubicle on castors to provide backup for 5 hours in the event of mains failure.

The client is Glasswell & Last, Electrical Contractors and Control Panel Design and Manufacturers based in Bury St Edmunds. The end user is Hexcel (Duxford, Cambs) manufacturers of carbon fibre and composites.



- Each System provides BackUp of a 6A Load for 5 Hours in event of Mains Failure
- Other BackUp Times Available
- Plug & Play Battery Cubicle for Integration with any UPS
- Recharge Time Selectable: 12, 24 or 48 hours
- Extra Long DC Leads Available for Remote Siting of Battery Cubicle
- Supplied on Castors for Ease of Installation

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Marine/Petrochemical



<u>Job Title</u>	<u>Job Number</u>	<u>Type of Installation</u>	<u>Case Study</u>
MCI Electrotechnics - North Sea	BO4390	Supply of 8kVA fully Marinised and Lloyds Certified UPS for offshore rigs	
Hamworthy Combustion Systems	BO4974	Design and Supply IP54 AC UPS using Vantage NiCad Batteries	
Electrical Power Engineering	BO5409	Supply of 4kVA redundant UPS System	
James Fisher - Japan	BO5357	Design and Supply of 8kVA fully Marinised UPS to include and install 24VDC Power Supply	
ABMAS - North Sea	BO4969	Supply of 10kVA fully Marinised and Lloyds Certified UPS Systems	
Peto - deBeers	BO4920/BO5004	Supply of various Marine and Lloyds Certified UPS Systems	
Consafe - Karachaganak	BO2686	Supply of 2 x redundant 40kVA AC UPS & 110VDC 10A DC Charger housed in an Explosive Proof Enclosure	
British Gas - Trinidad	BO4411	3 x 15kVA Parallel AC UPS complete with 20 year life Batteries, Transformers and Switchgear	
Silvertech - Russia	BO5158	Custom built AC and DC UPS with a backup time of 24 hours, housed in an IP54 Enclosure	
Monitor Oil - North Sea	BO5110	Custom built AC and DC UPS complete in a 19" Rackmount Enclosure	
Silvertech - Russia	BO5111/BO5294	Supply 2 x 8kVA/80 Minute PW9155M UPS	
Silvertech - Dubai	BO6262	Supply 3 x PW9155 UPS's plus 8 Hour Batteries - USA Version for Libya	
ABMAS - North Sea	BO6288	Supply 2 x 8kVA PW9155M UPS's	
James Fisher	BO6365	Supply 15kVA PW9155M UPS	
ICS TRIPLEX Silvertech	BO6395	PW9130/3kVA UPS & Battery Pack	
Wärtsilä	BO6557	Supply DPT 110/30, 110DC 30A Charger in Wall Mount Enclosure	
Blue Water Marine - Ship	BO3365/4232	Fully Marinised and Marine DNV Certified UPS complete with full on-board service	
deViers Ship - Ship	BO4920	Fully Marinised and Marine DNV Certified UPS	
Shell Oil - Ship	BO1603	Fully Marine Certified 8kVA UPS	

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➤ [MCI Electrotechnics - North Sea](#) [B04390](#)

Product	Value (£)	Date
8kVA UPS	4K	2005

Harland Simon provided an 8kVA fully Marinised and Marine Lloyds Certified UPS for Installation on Offshore Rigs in the North Sea.

➤ [Hamworthy Combustion Systems](#) [B04974](#)

Product	Value (£)	Date
IP54 1 Phase AC UPS 8kVA UPS	13K	2004
IP54 1 Phase NiCad AC UPS	19.9K	2006

Harland Simon were awarded the contract to design, manufacture and supply UPS Systems complete with High Performance Batteries, with the most recent using our Vantage NiCad Batteries housed within IP54 Enclosures. The contract also included Factory Witness Testing and Documentation.

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➤ Electrical Power Engineering

BO5409

Product	Value (£)	Date
4kVA UPS	4K	2007

Harland Simon provided a 4kVA UPS System complete with a redundant power module.

➤ James Fisher - Japan

BO4659 & BO5357

Product	Value (£)	Date
8kVA UPS	18K	2006
24VDC Power Supply	2K	2006
15kVA UPS	8K	2007

Harland Simon provided an 8kVA fully Marinised and Marine Lloyds Certified UPS in addition to the 24VDC 2kW Power Supply for Shipping and Installation in Japan. In 2007 we were asked to supply a larger 15kVA fully Marinised and Lloyds Certified UPS System to accommodate their new power requirement for this site.

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➤ <u>ABMAS</u>	<u>B04969</u>		
Product		Value (£)	Date
4 x 10kVA UPS		40K	2006

Harland Simon provided 4 x 10kVA fully Marinised and Marine Lloyds Certified UPS for Installation on Offshore Rigs in the North Sea.

➤ <u>Silvertch - Russia</u>	<u>B05158</u>		
Product		Value (£)	Date
Custom Built AC & DC UPS		23K	2006

Harland Simon were awarded the contract to Supply a 3kVA AC UPS and a 24VDC Charger System complete with High Performance Batteries with a backup of 24 hours, housed within an IP54 Enclosure supporting critical communications and safety systems in Russia.

DESCRIPTION



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➤ [Monitor Oil - North Sea](#) [B05110](#)

Product	Value (£)	Date
Custom Built AC & DC UPS	40.5K	2006

Harland Simon were awarded the contract to supply a Dual AC & DC UPS complete within a 19" Rackmount Enclosure. We carried out all associated site work in addition to the Project Management.

➤ [Silverttech - Russia](#) [B05111/B05294](#)

Product	Value (£)	Date
2 x 8kVA/80 mins PW9155M UPS	20K	2007

Harland Simon supplied 2 Pairs of 8kVA/80 minute PW9155M UPS complete with special paint finish and fixing brackets. Silverttech then fitted these into special containers which were shipped to remote areas in Russia for Petrochemical monitoring applications.

DESCRIPTION[Back to Front Page](#)**Marine/Petrochemical**[Back to Marine/Petrochemical List](#)

- **Silvertech - Dubai** **BO6262**

Product	Value (£)	Date
3 x PW9155 UPS's plus 8 hour Batteries	22.4K	Oct-08

Supplied 3 x PW9155 UPS's plus 8 Hour Batteries - USA Version - to Libya.

- **ABMAS - North Sea** **BO6288**

Product	Value (£)	Date
2 x 8kVA PW9155M	15.6K	Oct-08

Supplied 2 x 8kVA PW9155 Marine UPS's which will be installed on North Sea rigs to support Helideck Lighting.

- **James Fisher** **BO6365**

Product	Value (£)	Date
15kVA PW9155M UPS	27K	Dec-08

Supplied 15kVA PW9155M UPS, DC Power Supply, 3 hour Battery Power plus Lloyds Marine Inspection. Installed on BNFL ship in Japan.

DESCRIPTION



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➤ ICS TRIPLEX Silvertech BO6395

Product

PW9130/3kVA UPS & Battery Pack

Value (£)

3.6K

Date

Jan-09

Harland Simon secured a contract to supply a UPS System to provide backup for a Fire Safety Control System at Trawsfynydd Nuclear Power Station , as part of the decommissioning of the site.

The System included an Extended Runtime Battery Cubicle sited remotely from the UPS to provide Autonomy of 3 hours for a 1.6kW Load.

➤ Wärtsilä BO6557

Product

110VDC 30A Charger

Value (£)

4K

Date

May-09

Harland Simon supplied a 110VDC/30A Output, 440V 3 Phase (3 Wire) Input Marine Charger in a Wall Mount Enclosure.

The Enclosure was protected to IP31 with a Lockable Front access Door. The Charger was a Constant Voltage Thyristor controlled type with Current Limit, Float and Boost Charging Levels.

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➤ [Blue Water Meridian/Marine - Ship](#) [BO3365/4232](#)

Product	Value (£)	Date
4 x 60kVA UPS	100K	2004 - 2006

Harland Simon provided 4 x 60kVA fully Marinised and Marine DNV Certified UPS. We also provided full on-board services including: Delivery, Welding, Battery Build, Commissioning, Testing and Training.

➤ [deViers Ship - Ship](#) [BO4920](#)

Product	Value (£)	Date
3 x 60kVA UPS	71K	2006
2 x 10kVA UPS	18K	2006

Harland Simon provided 6 x UPS's fully Marinised and Marine DNV Certified UPS. We also provided full on-board services including: Delivery, Welding, Battery Build, Commissioning, Testing and Training.

➤ [Shell Oil - Ship](#) [BO1603](#)

Product	Value (£)	Date
8kVA UPS	7K	2006

Harland Simon provided fully Marinised and Marine DNV Certified UPS including Commissioning.

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Marine/Petrochemical



➤ Peto Netlift / de Beers

BO4920 & BO5004

Product	Value (£)	Date
60kVA Parallel Redundant AC UPS	71K	2006
10kVA Dual AC UPS	18K	2006



Harland Simon UPS provided a 60kVA 2 + 1 fully marinised and Lloyds certified PW9390 UPS system complete MODBUS communications for use within a marine environment.

Following our success of this project, we were subsequently awarded a second contract to provide a 10kVA dual, fully marinised and Lloyds certified PW9355 again with MODBUS communications.



- Custom Design & Build
- 60kVA Parallel Redundant AC UPS
- 10kVA Dual AC UPS
- Fully Marinised and Lloyds Certified

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Marine/Petrochemical



➤ Consafe Engineering/Karachaganak

B02686

Product

2 x Custom Built AC & DC UPS

Value (£)

110K

Date

1999



Harland Simon UPS was awarded a contract to supply dual redundant AC & DC UPS Systems for the Karachaganak Unit 3 Oil Field development in Kazakhstan.

The UPS provides critical backup emergency power to the oil field control and monitoring station including safety system shutdown power.

The system comprised of design, manufacture, factory testing, project management, export packaging, delivery and site commissioning.



Harland Simon provided customised AC & DC UPS to meet detailed customer specifications on rating, runtime, overload and temperature.

- Dual Redundant 15kVA & 40kVA Single Phase AC UPS
- Dual Redundant 10A/110VDC DC UPS
- 20 year Life Nickel Cadmium Batteries
- EEX-D Explosion Proof Battery Circuit Breakers

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Marine/Petrochemical



➤ British Gas / Trinidad

B04411

Product

3 x 15kVA Parallel aC UPS

Value (£)

100K

Date

2005



Harland Simon UPS designed a custom built 3 x 15kVA Parallel Marinised UPS complete with 20 year life batteries, transformers and switchgear to replace an old faulty UPS.

The UPS had to fit within a specified space and give increased power. We also performed factory witness testing and site commissioning with a rig ready engineer.



- Custom Design & Build
- 15kVA Parallel Marinised UPS
- 20 year Life Batteries

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Transportation



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<u>Job Title</u>	<u>Job Number</u>	<u>Type of Installation</u>	<u>Case Study</u>
Thales - Croydon Tramlink	B02855	Design, Manufacture and Supply a range of AC & DC UPS to support signalling equipment	
Siemens - Railtrack East Coast ML	B01107	50 x Extended Runtime Battery Packs and special Bypass/Distribution Panels	
Chloride - London Underground	B03494/4611/18/4736/99	Ongoing Supply of Extended Runtime Battery Packs and Customised UPS	
Optilan/Railtrack - Kings Cross	B04363	Modification of 20 x Rugged 1kVA UPS for Trackside Cabinets for Signalling	

DESCRIPTION



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Transportation



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➤ [Siemens - Railtrack East Coast ML](#) [BO1107](#)

Product

50+ Batteries and Distribution Panels

Value (£)

300K

Date

1997

Harland Simon supplied Siemens Transportation with over 50 Extended Runtime Battery Packs and specially built Bypass/Distribution Panels to support the Siemens UPS Module which supports the Trackside Communication Equipment.

➤ [Chloride - London Underground](#) [BO4618/4736/4799/4611/3494](#)

Product

UPS, Batteries, Chargers & Enclosures

Value (£)

50K+

Date

2004 - ongoing

BO3494 & BO4611 - 19 x Free Standing Battery Packs to support 2kVA UPS's for 4 hours to LUL specification.

BO4618 - 4 x IP54 Enclosures to house 6/10kVA UPS plus 90 minute Batteries.

BO4736 - 38U IP54 Enclosure to house 2 x 10kVA UPS with Batteries on Shelves.

BO4799 - 3 x IP54 Rack Systems each comprising 3 x 10kVA UPS's, Cross Switch and Chargers.

Chloride are the approved UPS supplier to London Underground. Chloride have appointed Harland Simon as their Approved Power Partner to supply Extended Runtime Battery Packs and Customisation of UPS to meet LUL specification.

DESCRIPTION



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➤ [Optilan/Railtrack - Kings Cross](#) [B04363](#)

Product

20 x 1kVA UPS System

Value (£)

15K+

Date

2005

Harland Simon supplied 20 x modified rugged 1kVA AC UPS Systems with Chargers, Batteries and Communications Cards to fit into Trackside Cabinets for Signalling.

CASE STUDY



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Transportation



➤ Rittal / Thales /Croydon Tramlink

BO2855

Product	Value (£)	Date
45 x 2kVA AC UPS	100K	2001
1 x 20kVA UPS	20K	2002
4 x DC UPS	20K	2003



Harland Simon UPS was awarded the contract to supply AC & DC UPS to support the control, communications and signalling equipment for the Croydon Tramlink.

The 28km network links Wimbledon in the west with Beckenham/New Addington in the east via Croydon town centre.

The contract was awarded to **Harland Simon UPS** by Rittal who were a sub-contractor to Thales Information Systems (formally known as Syseca).



Harland Simon provided a complete standby power solution for the control centre and tram stops including:

- 45 x 2kVA 19" Rack AC UPS
- 5 x 12V & 48VDC Power Supplies
- 5 x Battery Charger
- 45 x Custom Built Connection Modules
- 8 hour 10 year Design Life Batteries
- Project Management
- Site Installation & Commissioning

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Utilities



<u>Job Title</u>	<u>Job Number</u>	<u>Type of Installation</u>	<u>Case Study</u>
British Nuclear Power (BNFL)		Installation of various UPS since 1999 across many UK Sites	
ABNA Factory - Maindec	B03446	Supply and Installation of 60kVA UPS and 150kVA Generator to support Main Server Room	
Purac - Bromborough	B01930	Design and Installation of IP54 3 Phase AC UPS Systems	
Blackburn Starling		Supply of various AC & DC UPS over 5 years to suit a broad range of requirements	
Galliford Costain/Atkins Joint Venture		Design and Installation of IP54 3 and 1 Phase AC UPS Systems	
United Utilities - Southport	B05393	Supply of 5kVA UPS System to support 3 hours via our Extended Runtime Battery Packs	
AT Group - Wayoh WTW	B05293	Supply and Commissioning of IP42 3 Phase AC UPS System	
CSE Servelec - Gt Yarmouth PS	B05433	Supply, Installation and Commissioning of 3kVA N+1 UPS System	
Tyco Integrated Systems	B05431	Supply, Delivery and Commissioning 6kVA UPS System in IP31 Enclosure	
Galliford Costain/Atkins Joint Venture	B05443	Supply, Delivery and Commissioning 10kVA UPS System in IP54 Enclosure	
Agrilek - Castle Carrock WWTW	B05474	Supply, Delivery and Commissioning of 15kVA UPS System	
Tyco - Limehouse Tunnel	B05585	Supply, Delivery and Commissioning of 4 x AC UPS Systems each to support 4 hours	
Lintott Controls - SW Tarkskavavaig	B05557	Supply of 2kVA IP54 Rackmount UPS System	
Lintott - Scottish Water	B05607/5615/5616/5628/ 5684/5695/5729	Supply of 12 x IP54 Rackmounted UPS Systems to support 1300VAC for 12 hours	
AND Automation	B06230	Supply 15kVA UPS to a Water Company	
TES NI Ltd	B06234	Supply 80kW IP54 Converter to Scottish Water	
South West Water	B06370	Supply Riello 10kVA	
CEMA - Yorkshire Water	B06515	2 x IP54 Wall Enclosures	
CEMA - Yorkshire Water	B06514/15/46	2 x IP54 Wall Enclosures	
Galliford Try Costain/Atkins JV	B06080	Supply IP54 3 Phase 20kVA UPS	

DESCRIPTION



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➤ **British Nuclear Power (BNFL)** **B03078**

Product	Value (£)	Date
1 x DC UPS	20K	1999
3 x AC UPS	15K	2002
1 x AC UPS	5K	2004

Harland Simon were asked to Manufacture a DC UPS to provide Critical BackUp Power for an Evacuation Alarm at Sellafield for Tyco. Chubb, a major manufacturer of Security Systems requested Harland Simon to supply a number of AC UPS to provide BackUp Power for the Crucial Security System at a Nuclear Power Station.

➤ **ABNA Factory - Maindec** **B03446**

Product	Value (£)	Date
UPS and Generator	50K	2004

Harland Simon provided a 60kVA UPS and a 150kVA Generator to Protect the Main Server Room. We also undertook Site Building, Mechanical and Electrical Works.

DESCRIPTION



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➤ Blackburn Starling

Product	Value (£)	Date
300+ AC UPS & Batteries	300K	1999 - ongoing

Harland Simon have supplied Special and Standard AC & DC UPS for over 5 years. We have supplied standard Powerware & MGE AC UPS as well as Customised IP54 Systems and Extended Runtime Battery Solutions to be installed into MCC Panels to support SCADA, PLC and Emergency Pumps all over the UK and Ireland at Water Treatment Plants.

➤ Galliford Costain/Atkins Joint Ven

Product	Value (£)	Date
IP54 3 Phase AC UPS	9K	2006
IP54 1 Phase AC UPS	1.5 K	2006
IP54 1 Phase AC UPS	3K	2006

Harland Simon were awarded the contract to Design, Manufacture and Supply 3 x UPS Systems complete with High Performance Batteries housed within IP54 Enclosures. The contract included Full Site Services.

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➤ [United Utilities - Southport](#) [B05393](#)

Product

5kVA UPS with Long Runtimes

Value (£)

6K+

Date

2007

Harland Simon were awarded the contract to Supply and Deliver a 5kVA UPS System capable of supporting 3 hours. We achieved this above average Runtime by using our specially designed Extended Runtime Battery Packs which come ready assembled in an IP21 Enclosure.

➤ [AT Group - Wayoh WTW](#) [B05293](#)

Product

IP54 3 Phase AC UPS

Value (£)

18K

Date

2006

Harland Simon were awarded the contract to Supply, Deliver and Commission a 30kVA UPS System to support 3 hours housed within our IP42 Enclosure complete with 10 year design Life Batteries.

DESCRIPTION



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➤ [CSE Servelec - Gt Yarmouth Pwr St](#) [B05393](#)

Product

3kVA N+1 AC UPS

Value (£)

19K

Date

2007

Harland Simon were awarded the contract to Supply, Deliver, Install and Commission a 3kVA N+1 System ensuring the entire system has no single point of failure.

➤ [TYCO Integrated Systems - BNFL](#) [B05431](#)

Product

6kVA AC UPS

Value (£)

13K

Date

2007

Harland Simon supplied an IP31 19" Rackmounted UPS Solution for use on a BNFL site. Our contract included not only our Custom Designed Rackmount IP31 Enclosure but also a Step Down Transformer to accommodate 110VAC output. We also undertook Factory Witness Testing and on-site Commissioning.

DESCRIPTION



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➤ [GC/Atkins Joint Ven - Prenton WTW](#) [B05443](#)

Product

10kVA AC UPS

Value (£)

11K

Date

2007

Harland Simon were awarded the contract to Supply, Deliver and Commission a 10kVA Powerware PW9355 housed completely within our IP54 Enclosure. The Design of this system also allowed for both a 400VAC and a 110VAC output, as specified by the client.

➤ [Agrilek - Castle Carrock WWTW](#) [B05474](#)

Product

15kVA UPS

Value (£)

7K

Date

2007

Harland Simon were awarded the contract to Supply, Deliver and Commission a 15kVA 3 Phase UPS System for use on a WWTW Site in Cumbria.

DESCRIPTION



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➤ [Tyco - Limehouse Tunnel](#) [BO5585](#)

Product

4 x AC UPS System

Value (£)

29K+

Date

2007

Harland Simon were awarded the contract to Supply, Deliver and Commission 1 x 15kVA, 1 x 10kVA and 2 x 3kVA AC UPS Systems each to support 4 hours complete with SNMP Communications. Our Site Services included the Delivery and Positioning, Battery Build and Commissioning of each unit.

➤ [Lintott Controls - SW Tarkskavavaig](#) [BO5557](#)

Product

2kVA IP54 UPS System

Value (£)

5K+

Date

2007

Harland Simon supplied a 2kVA UPS System capable of supporting 12 hours, housed in an IP54 19" Rack Enclosure.

DESCRIPTION



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➤ [Lintott - Scottish Water](#) [B05607/5615/5616/5628/5684/5695/5729](#)

Product	Value (£)	Date
12 x IP54 Rackmounted UPS Systems	75K	2007

Harland Simon were awarded the contract to Supply approx. 12 x 19" Rackmounted IP54 UPS Systems to support various loads totaling 1298VA for 12 hours plus Fast Charger and Distribution, etc. The Systems were configured to be installed into Prefabricated Containers at various remote Scottish Water Sites.

➤ [AND Automation](#) [B06230](#)

Product	Value (£)	Date
15kVA UPS	6K	Sep-08

Supply 15kVA UPS which will be installed within the Customer's Panel for a Water Company application.

➤ [TES NI Ltd](#) [B06234](#)

Product	Value (£)	Date
80kW IP54 Converter	35K	Sep-08

Supply 80kW IP54 Converter for Single Phase Supply to Three Phase and support all critical equipment on site in Altnaharra for Scottish Water.

DESCRIPTION



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➤ South West Water BO6370

Product

Riello 10kVA UPS

Value (£)

4K

Date

Dec-08

Supplied Riello 10kVA UPS to support Site Monitoring Equipment.

➤ CEMA - Yorkshire Water BO6515

Product

2 x IP54 Wall Enclosure UPS's

Value (£)

6K

Date

Apr-09

This was a contract to Supply 2 x IP54 Wall Mount Enclosures for a Yorkshire Water site in Doncaster. The systems consist of a 3kVA UPS to backup an 11A Load for 15 minutes. A separate Battery Pack was incorporated into the system to provide the Autonomy.

➤ CEMA - Yorkshire Water BO6514/BO6546

Product

2 x IP54 Wall Enclosure UPS's

Value (£)

4.5K

Date

May-09

Part of a contract to supply IP54 Wall Enclosures for Yorkshire Water sites. Each Enclosure contains a UPS to support a 1kVA Load for 15 minutes. Enclosures were supplied complete with External Bypass Switches and painted in Yorkshire Water Colours.

CASE STUDY



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➤ Purac / United Utilities Bromborough WWTW BO1930

Product

3 x IP54 3 Phase AC UPS

Value (£)

50K

Date

2002 - 2004



AMEC-PURAC Joint Venture, a £28 million contract to provide new treatment facilities at Bromborough Wastewater Treatment Works. As part of this contract Purac awarded **Harland Simon UPS** a sub-contract to design, supply and install various UPS.

The UPS systems supplied were installed at excess storm and primary tank locations on the Bromborough site to protect the main storm actuators which open or close the sluice gates which determine the wastewater flow. The design and build sub-contract awarded to Harland Simon UPS was completed in a 6 week period and required considerable detailed mechanical and electrical design.

Harland Simon provided three phase high power UPS for the valves and single phase UPS for the support and monitoring equipment.

- IP54 High Ingress Protection Enclosures
- Three Phase 30 - 60kVA AC UPS
- Single Phase 1 - 6kVA AC UPS
- Bypass Switches & Extended Runtime Batteries
- CAD & Project GANTT Charts
- Site Services



CASE STUDY



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Utilities



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➤ GTCAJV/United Utilities/Bolton WTW

BO6080

Product

3 x IP54 3 Phase AC UPS

Value (£)

30K

Date

Jun-08



Galliford Try-Costain-Atkins Joint Venture was awarded a number of contracts by United Utilities as part of a £2.9 billion Asset Management Programme (AMP4) covering water and wastewater improvements throughout NW England.

Part of this contract involved significant refurbishment works on the existing Bolton Wastewater Treatment Works.

Harland Simon UPS won the contract to supply and install 2 x UPS systems to backup storm and inlet actuators. The UPS Systems supplied consisted of 20kVA 3 Phase Borri UPS's fitted in IP54 Sealed Enclosures complete with Thermostatically controlled Anti-Condensation Heaters, Fans and Filters. An external Maintenance Bypass was installed to allow the UPS's to be totally isolated for Maintenance and Repair.



From Point of Order, the Complete Design, Build and Installation was completed in 7 days and involved a huge amount of co-ordination and Project Management, including highly detailed Mechanical and Electrical Design.

- IP54 High Ingress Protection Enclosures
- Three Phase 20kVA AC UPS
- External Maintenance Bypass Switch
- CAD Drawings
- Project GANTT Charts
- Site Services including Site Survey, Delivery and Commissioning

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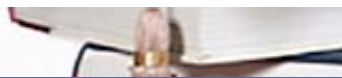
Public Sector



Click on Market Sector below to Read More

Education

Cambridge University - Cambridge
University of East Anglia



Government

HM Government Communications Ctr
SSVC - MoD Radio
MOD Catterick
NAAFI



Health

Nestor Healthcare - Birmingham
Glenfield Hospital - Leicester
Barnsley Hospital - Barnsley
Withenshaw Hospital - Withenshaw
NHS South Manchester
NHS Springfield



Services



REFERENCE SITE LIST



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Education



Job Title

Cambridge University - Cambridge
[Eyre - University of East Anglia](#)

Job Number

B03496
B05338

Type of Installation

Supply 2 x 100kVA Parallel Redundant UPS and a 300kVA Generator
Supply, delivery and commissioning of 800kVA Generator Set with remote monitoring

Case Study



DESCRIPTION



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Education



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➤ [EYRE - University of East Anglia](#)

[B05338](#)

Product

Generator

Value (£)

89K

Date

2007

Harland Simon provided a 800kVA Generator Set with Remote Monitoring.
We have also been awarded the maintenance contract for this equipment.

CASE STUDY



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Education



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➤ [Cambridge University](#)

[BO3496](#)

Product

2 x 100kVA UPS & Generator

Value (£)

300K

Date

2004



Cambridge University nominated **Harland Simon UPS** as their main contractor to upgrade the Power Protection System to support their main computer system which supports the Cambridge wide educational network.

Harland Simon's role as main contractor included responsibility for all site activities including:

- Health & Safety
- Site Access, Control and Monitoring
- Procurement of all Main Contractors including *Building Services, Mechanical Installation, Electrical Installation, Air Conditioning and Generator*

The project was completed within budget and the 24 week project timescale.



The equipment provided was supplied strictly in accordance with the Cambridge University Estate Management Departments detailed technical specification.

- 300kVA Diesel Generator with 12 hour Base Tank
- N+1 Redundant 100kVA/20 minute PW9340 UPS
- Electrical Installation
- Building Services
- Project Management
- On-Going Service & Maintenance of the Entire Installation

REFERENCE SITE LIST



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Government



Job Title

[HM Government Communications Ctr](#)

[SSVC - MoD Radio](#)

[Balfour Kilpatrick - MoD Catterick](#)

[NAAFI](#)

Job Number

BO4490

BS6117

BO5613

BO4825/4954

Type of Installation

300 + 1kVA UPS Systems since 2001

Ongoing Maintenance of Existing 15kVA UPS System

Supply, installation and commissioning of DC Power System

Supply of 60kVA UPS and 105kVA Generator in addition to Site Services

Case Study

DESCRIPTION



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[Government](#)



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➤ [HM Gov Communications Centre](#) [BO4490](#)

Product

300+ 1kVA UPS Systems since 2001

Value (£)

100K

Date

2001 - ongoing

Harland Simon are the nominated supplier to HM Government Communication Centre (HMGCC) for the Supply of their 1kVA UPS Systems. We have supplied over 300 UPS Systems since 2001.

➤ [SSVS - MoD Radio](#) [BS6117](#)

Product

Maintenance Contract

Value (£)

TBA

Date

2003 - ongoing

Harland Simon have Maintained the 15kVA AC UPS located on-site since 2003. This is Supported with Yearly Preventative Maintenance Visits and guaranteed Response Times to Call Outs.

DESCRIPTION



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➤ [Balfour Kilpatrick - MoD Catterick](#) [BO5613](#)

Product	Value (£)	Date
DC Power System	18K	2007
13 x DC Isolators	5K	2007

Harland Simon were awarded the contract to supply, install and commission a DC Power System to support 56kw as specified by the consultant. We were subsequently asked to supply the DC Isolators as specified by the customer. Our Site Services included the delivery, positioning, electrical installation and on-site commissioning of the DC System.

➤ [NAAFI](#) [BO4825/4954](#)

Product	Value (£)	Date
UPS & Generator	36K +	2006

Harland Simon provided a 60kVA UPS and a 105kVA Generator. We also undertook the site building, mechanical and electrical works in addition to the maintenance contract for both systems.

REFERENCE SITE LIST



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Health



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<u>Job Title</u>	<u>Job Number</u>	<u>Type of Installation</u>	<u>Case Study</u>
Nestor Healthcare - Birmingham	BO5081	Supply of 20+ UPS and Generator Systems over a 5 year period	
Glenfield Hospital - Leicester	BS6032	Yearly Maintenance Contract for AC UPS Systems	
Barnsley Hospital - Barnsley	BO5418	Supply, Install, Commission and Maintain 2 x 40kVA UPS Systems to include Consultation	
Withenshaw Hospital	BO5929	Supplied various Single Phase Equipment across IT & Admin. centres.	
NHS South Manchester	BO6517	Supplied 2 x 5kVA PW9135 UPS	
NHS Springfield	BO6547	UPS Installation Survey	

DESCRIPTION



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Health



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- [Glenfield Hospital - Leicester](#) [BS6032](#)

Product	Value (£)	Date
Maintenance Contract	TBA	2001 - ongoing

Harland Simon have been supporting the 3 x AC UPS at Glenfield Hospital since 2001 with yearly preventative Maintenance Visits and guaranteed Response Times to Call Outs.
- [Withenshaw Hospital](#) [BO5929](#)

Product	Value (£)	Date
PW9120/PW9125/Pulsar	12K	2007/08

Harland Simon supplied Various Single Phase equipment across the hospital's IT infrastructure and Administration Centres.
- [NHS South Manchester](#) [BO6517](#)

Product	Value (£)	Date
2 x 5kVA PW9135 UPS	6K	May-09

Harland Simon supplied 2 x 5kVA PW9135 UPS to support critical server equipment.

DESCRIPTION



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Health



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➤ [NHS Springfield](#)

[B06547](#)

Product

Value (£)

Date

UPS Installation Survey

1K

May-09

Harland Simon undertook a site survey to advise on the UPS & Electrical Installation requirements, we then provided a detailed site report.

CASE STUDY



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Health



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➤ [NHS Barnsley Hospital](#)

[BO5418](#)

Product

2 x 40kVA UPS

Value (£)

75K+

Date

2006 - 2007



Harland Simon UPS worked as the primary consultant on this project and wrote the specification. We were subsequently awarded the contract to supply, install, commission and maintain 2 x 40kVA UPS Systems, with full Project Management given throughout the duration of the work.

In addition to supplying the UPS systems, our site work involved partitioning, air conditioning installation. Diamond drilling and the various AC/DC installation works.



- 2 x 40kVA AC UPS
- Site Installation Services
- Project Management
- On-Going Service & Maintenance

CASE STUDY



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Health



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➤ [Nestor Healthcare/Birmingham](#)

[BO5081](#)

Product	Value (£)	Date
2 x 100kVA AC UPS	100K	2003
2 x 300kVA Generators	100K	2003
10 x AC UPS & Batteries	100K	1998 - 2004



Harland Simon UPS was awarded a contract to supply two dual redundant 100kVA UPS systems and a 300kVA Diesel Generators for Nestor's new national call centres in Birmingham and Sheffield.

The UPS and Generator Sets are backing up the critical communications and IT infrastructure at both locations, ensuring the 24/7 call centres remain operational in the event of supply failure.

Harland Simon was responsible for the design, build, testing and installation of both systems in conjunction with Mason Communications who acted as Nestor's Telecom and IT consulting company.

In addition to the major national call centres Harland Simon UPS are responsible for the on-going service and maintenance of 27, regional sites that operate 24/7.



Harland Simon have provided AC UPS of various rating and battery capacity to 20 sites throughout the UK. The UPS supports critical communication and IT equipment at the UK call centres and offices.

- 2 x 100kVA Dual Redundant UPS
- 2 x 300kVA Diesel Generators
- 20 x AC UPS - Single & Three Phase
- Site Installation Services
- Project Management
- On-Going Service & Maintenance