

Battery system care and PowerNSURE

Battery design, installation and continuous care



Battery system care

Pioneering solutions for total power protection.

Battery Services:

Advice on battery system design

'Made to measure' battery installation service

Battery impedance testing to track battery condition

Inspection, cleaning & maintenance options to ensure battery working life is optimised

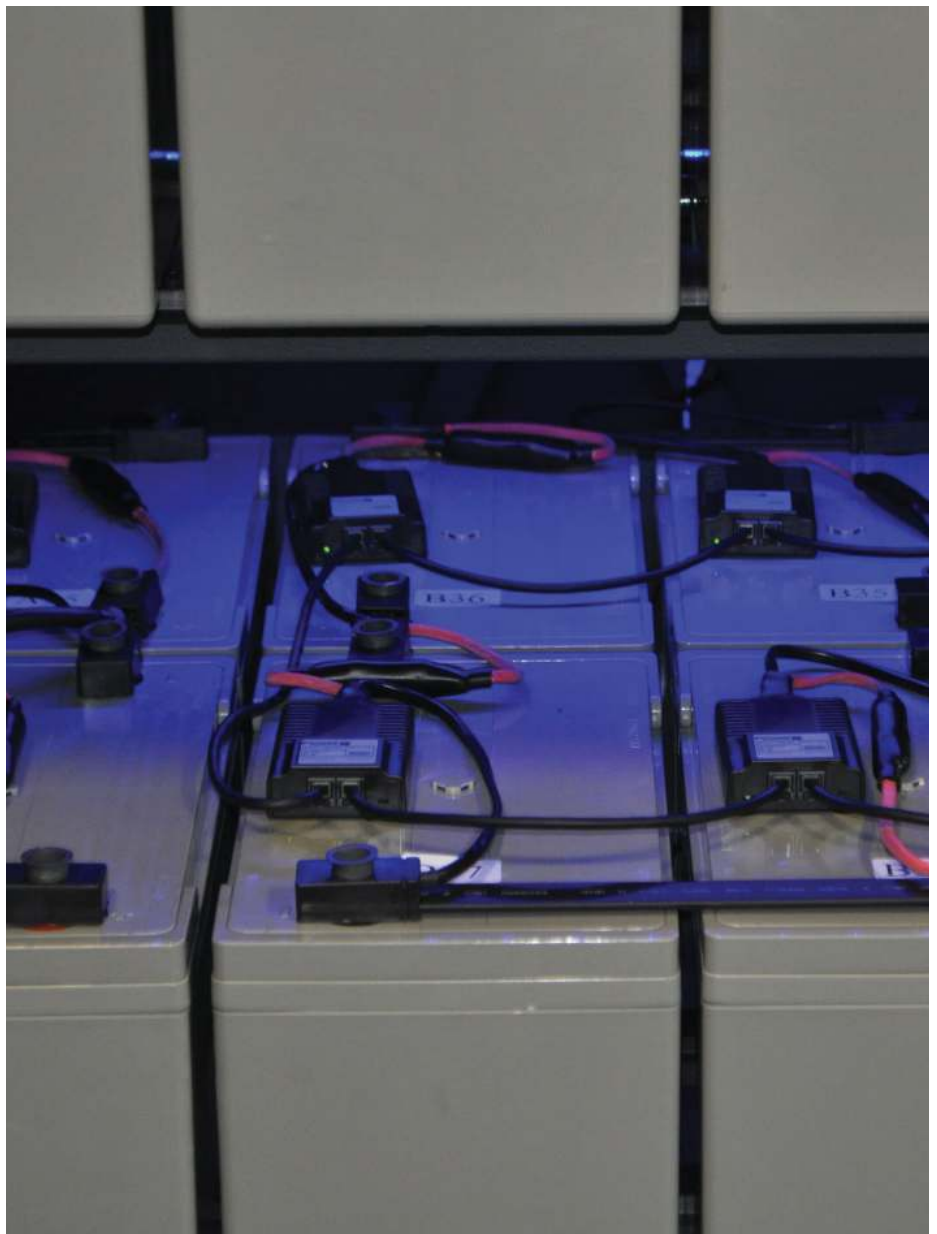
Battery replacement programme for a wide range of battery supported products

Safe battery disposal

Monitoring & regulation of batteries to extend battery life and prevent unexpected failure using PowerNSURE

For more information call 01256 386700
or visit www.upspower.co.uk

All UPS systems rely on the integrity of batteries to protect the critical load in the event of a power failure. To ensure the integrity of your secure power system is not compromised, Uninterruptible Power Supplies Ltd (UPSL), a Kohler company, provides a comprehensive range of battery services – including design, installation, maintenance, monitoring, replacement and disposal.



Design

A well-designed installation will ensure batteries do not represent the weakest link.

At UPSL we employ specialists who are power protection and battery experts. They are always available to advise clients about all aspects of battery design for a wide range of applications including: UPS systems, standby generators and emergency lighting units.

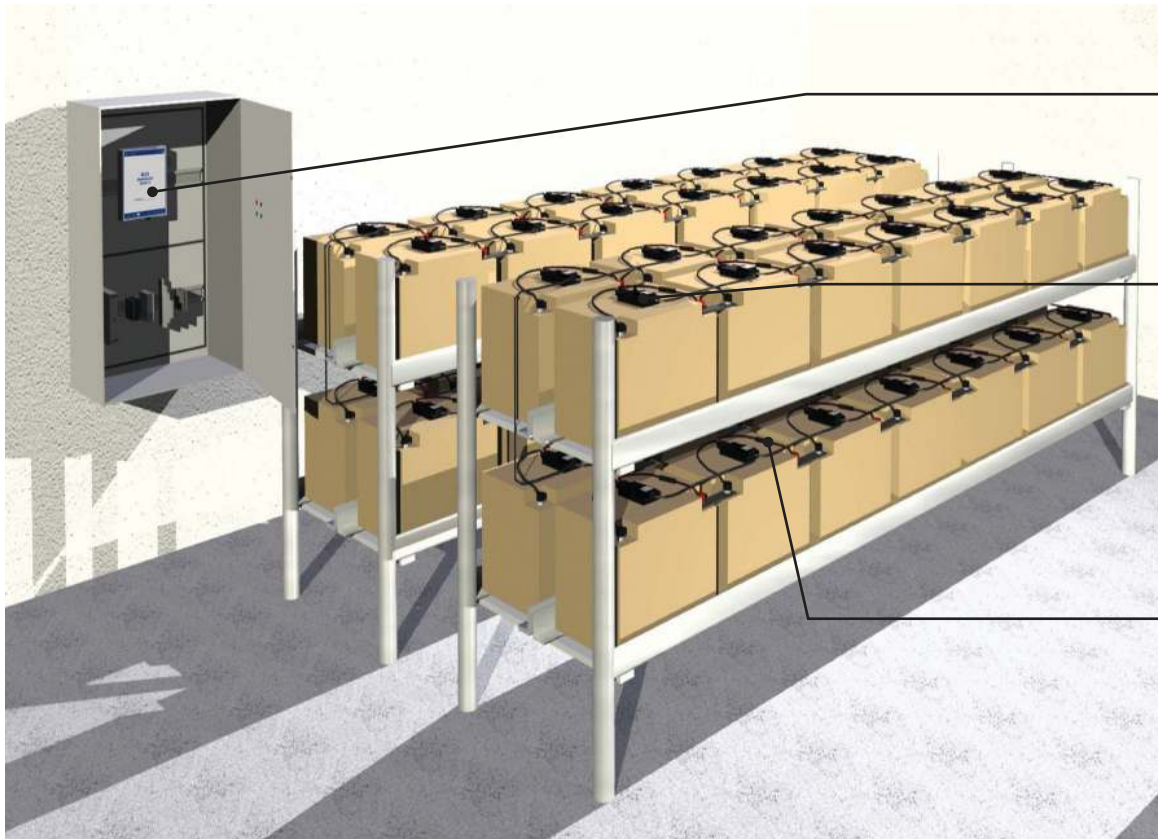
There is no 'one size fits all' with battery design. At UPSL each battery requirement is customised to meet the precise needs of the client.

The design will take into account issues such as critical load, autonomy time, ambient temperature conditions, and open or cladded rack design.

Installation

Our battery installation service is 'made to measure'. We don't insist on project managing the complete installation for you (although we can and do when required). We provide the highest level of customer service – be it 'supply only', or a fully project-managed installation.





PowerNSURE
Web Manager

PowerNSURE
Modules

PowerNSURE
Cables

PowerNSURE

Key benefits

Extends battery life by equalisation

Monitors & regulates the battery charging process & avoids under-charging

Indicates battery problems before failure

Monitors condition of every battery individually including temperature

The PowerNSURE system from UPSL is the most advanced product on the market today, providing an ethernet-network integrated battery monitoring and management system. Using web-management technology, it checks the internal resistance, temperature and voltage of every single battery sequentially. Through the Equalisation process, the system corrects the charging voltage operating range. This prevents gassing, dry-out and thermal runaway.

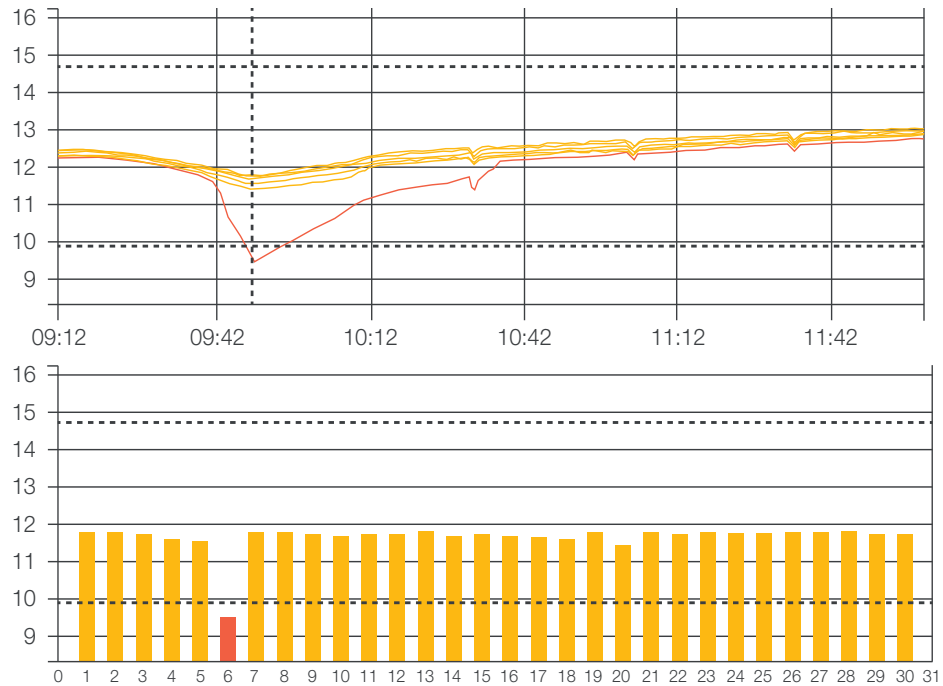
The constant monitoring and controlling of the individual charging voltages for each battery guarantees the availability of the battery at all times.



PowerNSURE reporting

The reporting system displays the status of all lead-acid batteries. Any change in impedance, temperature and voltage is displayed and stored. Reports can be run regularly on site, enabling constant monitoring of the system using the PowerNSURE viewer. Through regular monitoring of key parameters, the system will provide a warning when attention is required.

The graph demonstrates that battery 6 is weak after 30 minutes of discharge into a 45 minute run. This early warning system enables the user to replace the weak-performing battery and thus increase the lifetime of the complete battery system.



Inspection, cleaning & maintenance

Regular maintenance optimises the working life of a battery installation, and ensures early detection of weak or faulty battery blocks. If not replaced, a compromised battery would threaten the integrity of the whole power protection system. Routine battery maintenance, provided by our skilled team of specialist engineers includes:

- Checking the open circuit battery and UPS float voltages
- Inspecting the physical condition of batteries, terminals and connections
- Environmental checks – ambient temperature of battery room
- Checking the cleanliness of equipment
- Assessing the condition of battery cabinets
- Performing a detailed examination of individual cells for post and interconnector corrosion
- Taking voltage readings – block and string voltages

Impedance testing

Our impedance testing provides a means of assessing the internal condition of batteries. Almost any battery problem will lead to an increase in internal impedance. Recorded at regular intervals, impedance testing will track battery condition and enable accurate end-of-working-life prediction.

This service is included as part of the PowerNSURE system or can be purchased separately.

Replacement & Upgrade

We supply and fit batteries of all types into all models of UPS and secure power systems. Additionally, UPSL offers a battery replacement programme for a wide range of battery supported products. These include AC UPS, DC equipment, emergency lighting units and generator starting batteries.

Disposal

Batteries are classed as hazardous waste and, in the UK, must be disposed of in line with the Hazardous Waste Regulations 2005.

As a registered carrier of such waste (Registration number TWE/675610), UPSL ensures that all the legal requirements associated with the removal, transportation and disposal of waste batteries, are fully complied with.

Quality guaranteed

Our quality assurance, health and safety and environmental procedures are BSI EN ISO 9001:2008, OHSAS 18001, ISO 14001 certified. We are also certified under the SafeContractor scheme (www.safecontractor.com). These certifications ensure that all of your obligations under health and safety legislation are fully met. All battery maintenance visits and activities are fully documented.

Other service options available

Delivered by our trained engineers and support staff, we offer the most comprehensive and cost-effective UPS & Generator service plans available, ensuring your power protection systems are expertly maintained on a regular basis and always ready to support your business load. Our services include:

- Initial site surveys
- System design
- Installation & Commissioning
- Preventative maintenance
- Repair
- Capacitor replacement
- Remote monitoring (PowerREPORTER)
- Load bank testing
- Witness testing

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