



Battery testing

These instruments are ideal for monitoring the state of UPS batteries in mission critical applications in substations, telephone exchanges, railway infrastructure and mobile communications installations.



Impedance measurement is a

well accepted on-line method for monitoring the health of lead-acid battery strings. Impedance testing can identify a faulty cell before it damages the whole battery bank.

The **BITE3** is a highly portable battery impedance tester for batteries with a capacity up to 2500 Ah. With a graphical display and on-board memory and database functions BITE3

is the first tester to measure float current and to allow analysis of the harmonic content of ripple current. It can also measure cell voltage and the resistance of intercell straps detecting loose connections and corrosion.



For larger battery strings with outputs up to 7500 Ah the **BITE2** series

offers an ideal tough, easy to use solution.

The **BITE2P** offers the option of an on-board printer

Only by measuring the capacity of the battery under load conditions can you predict how it will perform. This requires a discharge test. This is the most reliable test but is usually done off line.

Impedance and load testing compliment each other and the results closely correlate. Impedance testing allows regular checking of the battery system, and load testing demonstrates what will actually happen should the battery system be needed.

Torkel is an advanced battery discharge tester controlling the rate



- Batteries can be tested in situ
- Unit adjusts to include load currents in the test parameters
- User adjustable alarm and shutdown points to avoid excessive discharge

- Easily expandable for larger battery banks using TXL extra load units
- Computerised test operation using Torkel Win software



For rapid checking of battery voltage the pocket sized **AVO310** is ideal. With a large easy to read scale, and backlighting make it perfect for low light areas such as battery cabinets



For measuring and monitoring load currents the **DCM340** is ideal. Capable of measuring d.c. current up to 600 A, d.c. voltage up to 600 V and resistance up to 400Ω; the DCM340 is a tough, versatile tester



Earth faults on floating battery systems have the potential to drain

the battery and render the back-up useless. The **BGFT** quickly finds and locates faults without disconnecting the battery system.



A common method of assessing the health of flooded cells is measuring the specific gravity. The

Digital Hydrometer rapidly determines the SG and temperature of each cell and commits it to memory for downloading to a PC.



One of the simplest battery problems to resolve is high resistance battery straps. **DLRO10X** with its high accuracy and on-board memory allow the operator to monitor the resistance of each strap in an on-going basis.

The art of battery maintenance and monitoring is dependant on trending a series of measurements



and the ability to compare one cell's performance against the others.

The **PowerDB** database software gives the user the ability to handle the data and make it meaningful