

# Consulting and Testing Services

## Battery Condition Assessment

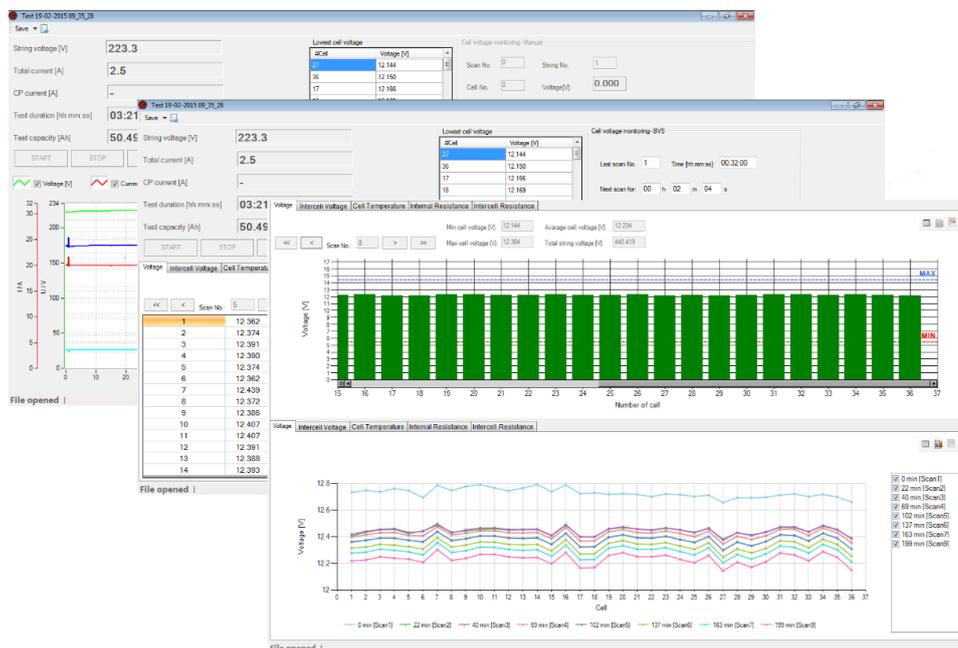
- Consulting services before and after periodic maintenance
- Visual inspection
- Fully automated capacity testing
- Internal resistance testing and trending analysis
- String/cell equalizing
- Result analysis and independent test witnessing



### Description

Backup batteries are an important part of any safety system, a part that simply must not fail. To ensure safe operation, it is important to have a proper maintenance program. A large number of tests have been performed and described: visual inspections, specific gravity, float current, internal resistance, and capacity test. Among all

of these tests, the capacity test is the most reliable way to determine the correct condition of the battery. We in DV Power are doing this for our customers, preparing instructions for site preparation and initial condition as well as detailed reports and independent test witnessing.



Software view: Histogram views, numerical results, and discharge graph

### Why Perform Discharge Testing?

A capacity test is the only way to get an accurate value of the actual capacity of the battery and to determine where the battery is on its predictable life curve.



Using our BLU Series of instruments, the capacity test can be completed in a short time.

Unfortunately, many batteries do not receive regular capacity tests, this occurs due to several myths and misunderstandings; also, a measurement of internal resistance has come into vogue. Correlation between capacity and impedance is not mathematically perfect and using internal resistance as a replacement criterion is not always reliable.

### Why Perform Impedance Testing?

Even though capacity tests are the most reliable way to determine the condition of the battery, there is a possibility that the battery fails between discharge tests. This quick and easy test will increase reliability for critical loads and provide information about chemical changes in the batteries.

Highlighted cells can then be tested in greater detail using the capacity test. This test is ideal for situations where we need to avoid any interruption to operations and the costs associated with these interruptions.

### Why DV Power Services?

DV Power is a market leader in manufacturing devices for testing batteries, especially systems used for capacity testing. Conducting intensive testing and collecting results has equipped us with huge experience in diagnostics and assessment of the condition of different battery types. Based on that experience, we can easily address problems in the battery string before it fails and provide our customers with an independent opinion.