



## COMPANY PROFILE & Services

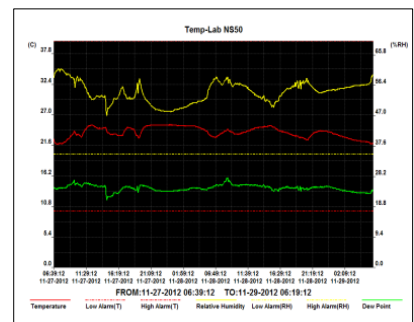
GELCOservices is an Automotive Industry Consulting firm, specialising in Electrochemical Engineering, particularly related to the testing of automotive batteries, Electric Vehicle charge systems and infrastructure.

The Company has a fully equipped Technical Laboratory for the effective Validation process of automotive batteries and other automotive equipment such as battery testing devices, battery related accessories, and battery related Metallurgical investigations and EV charge systems development.

GELCOservices can work with Clients and their battery suppliers to identify and perform battery Validations to Standards and Manufacturer Specifications, allowing in-depth client knowledge of the integrity and performance electrically and chemically of an existing range battery or a new addition to range battery.

Full and concise reports are issued to Clients, which cover the following typical test procedures:

- Identify battery ratings as compared to Client specifications
- Weight of battery, lead and electrolyte content
- Specific Gravity, CCA & SOC / SOH on delivery
- Condition battery in accordance with AS2149-2003 Standard
- Perform conductance test after Conditioning
- Perform Sg after Conditioning
- Determine SOH & SOC chemically
- Resistance test – AS2149 - Ohms
- Discharge test to C20Hour rate – Ah – AS2149
- Reserve Capacity – Mins. – AS2149
- Charge Acceptance – AS2149 – Amps
- Teardown and analysis of construction or failure cause.
- Dimensional validations
- Electronic Microscope – for investigations
- Labelling & compliance
- Complete Product Audit sheet.
- Complete detailed report

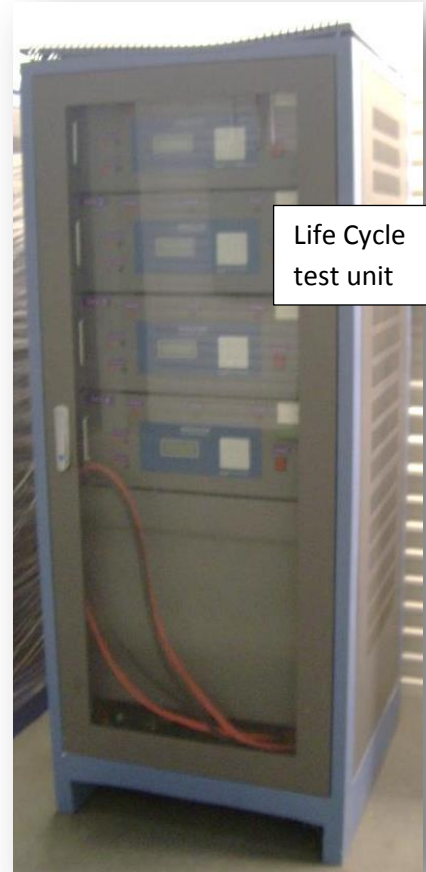


Battery testing and Validations can be performed to the following Standards:

- SAE J537
- SAE J240
- SAE J2801
- SAE J2185
- BCIS-05
- BCIS-06
- BCIS-07
- BCIS-08
- DIN EN50342-1 Oct 2012
- JIS D 5301 – 2006
- IEC 60095-1 Nov 2006
- IEC 60051-2
- AS 2676.2
- AS 2149-2003



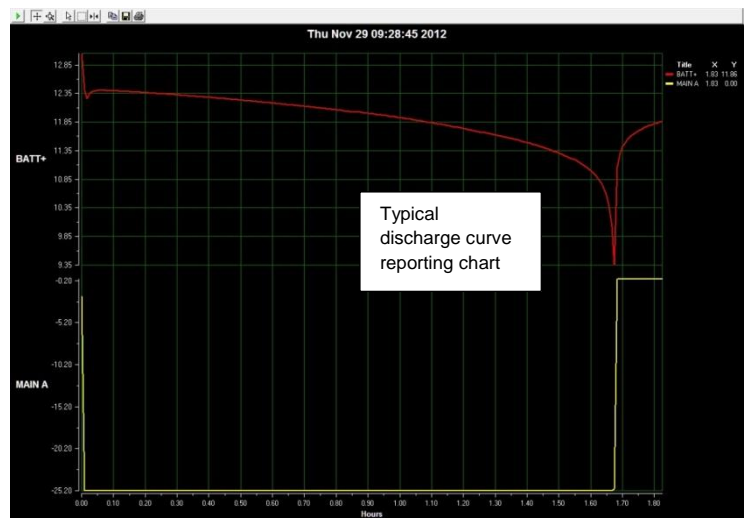
Typical Lab testing equipment



Life Cycle test unit



Life Cycle test unit – control panel



Typical discharge curve reporting chart