

Lg 21700 cell datasheet

The DCIR was measured by Popp et al [6] at 3 C-rates and at different temperatures. The DCIR values were taken 0.5s into the pulse and have been plotted below versus temperature.

Chang-Hui Chen et al [7] used this cell to develop the cell teardown, analysis techniques and subsequent mathematical models. The table below comes from this paper and lists some of the physical parameters for the Cathode, Separator and Anode.

Gas Pressure Post Formation ¶; Gulsoy et al [1] developed a technique to measure the accumulated pressure within the cylindrical cell post formation, the cell in question was the LG INR21700 M50. The method involved opening the cell and inserting a sensor without incurring a loss of pressure. A bespoke test rig was designed to achieve this. Three cells were tested and the average gas pressure was 260 mbar.

Internal gas pressure of instrumented cells with respect to 0% SOC during the processes of (a) charging with C/3 rate and (b) discharging with 1C rate at different ageing stages

The LG INR21700 M50 is a high energy and moderate power cell. Based on its capability it has been used in a lot of applications and for a lot of research programmes.

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