

Li-Ion cells grading - cells grades A, -A, B and C – What does it mean?

Formation process is the last part of Li-Ion cells manufacturing and include 3 steps: Formation, Aging and Grading. The Grading is measuring the final cells quality by looking into cell capacity, Voltage, Stability, Internal resistance, discharge curve and cycle life.

The best quality cells meeting the cells data sheet requirement define as grade A.

When grade A cells stored for a long time they turn into grade -A.

Cells that are not meeting the cell data sheet requirements define as grade B. Cells self-discharge is too high, Capacity is lower, Internal resistance is too high, Variation in cell dimensions and weight are more than standard.

Cells which are not active or have shape issues and also grade B sells after long storage define as grade C – These one will be dispose and recycle.

Leading cell makers are not selling Grade B cells to customers – They most often offering these cells to trading companies without their branding label. These traders do not offer warranty.

Shmuel De-Leon Energy provides an on-demand professional purchasing services for A grade cells only (Hard Case Cylindrical, Hard case prismatic, Pouch, Coin, Button) and battery packs from all chemistries).

Contact us with any requirement.

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