Shmuel De-Leon Energy Ltd

High Temperature Rechargeable Li-Ion Cells - Market Review

This market research will focus on following key points:
What for we need lithium rechargeable cells for extreme temperatures?
Why can't we use "standard" cells?
Who are the cell makers to offer high temperature range cells?
What are the cell models available in the market?

Report Content

Extreme Temperatures Lithium Rechargeable Battery Needs
Lithium Rechargeable Systems & Batteries and Best performance cells
What Are an extreme Temperatures for Rechargeable Li-Ion Cells? (For discharge >60C, <-20C, for charge >45C, <0C)
Unofficial Industry Low - High Charge/Discharge Temperature Limit Definitions
The market needs standard definitions
Why charging temperature limits are always narrower than discharge temperature limits?
What Happen on Extreme Low/High Temperatures
Performance Uniformity Damage and Temperature Effect on Cycle life
Li-Ion Life Estimation at Different Storage Temperatures
Li-Ion Cells Extreme Temperature Behaviour Mechanism
“Standard” Cell behaviour when charge on High/Low Extreme Temperatures?
Voltage Techniques to Gain More Discharge Energy
Voltage Techniques Combined with Extreme Temperatures
Cell Packaging effect behaviour at Extreme temperatures
Li-ion Cylindrical can shape
Li-ion Prismatic can shape
Li-ion button shape
Li-Ion pouch cell shape
Pouch Cells Swelling at Extreme Temp.
Cell Validation at Extreme Temp.
Extreme Temperatures Performance Test Plan
Extreme Temperatures Safety Test Plan
High Temperature Li-Ion Pouch Cells
Review of 28 cell makers to offer high Charge and Discharge temperature li-ion cells (> 45 Deg C for Charge, >60 Deg C for Discharge).
Report to include some cells data sheets

Contact us for purchasing a copy - shmuel@sdle.co.il
Research files type: Power Point