Supplementary Information

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Development of a low-melting-point eutectic salt and evaluation of its discharge performance for lightweight thermal batteries

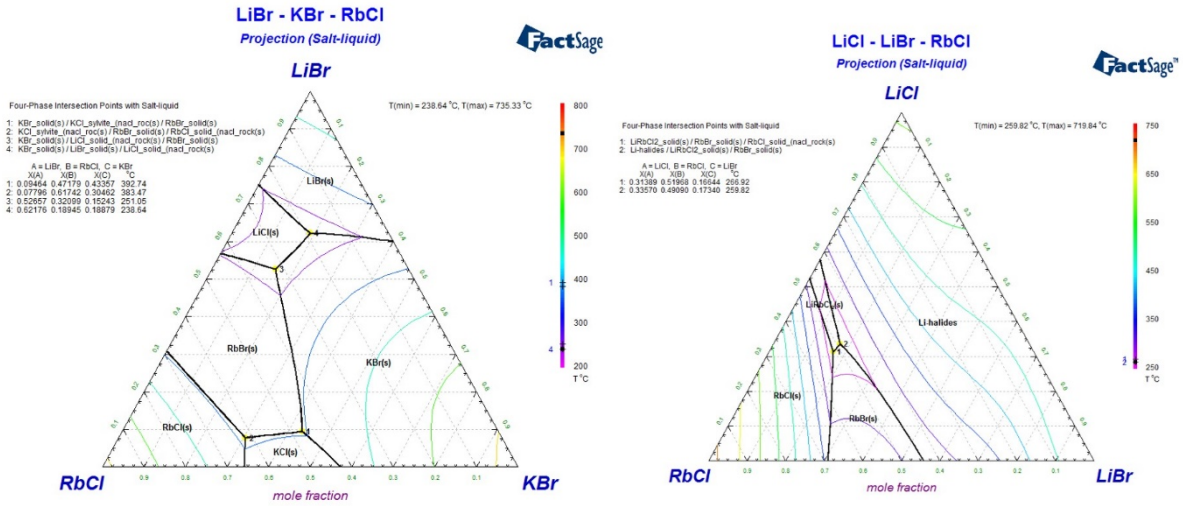

Fig S1. Calculated phase diagram of LiBr-KBr-RbCl and LiCl-LiBr-RbCl by the Factsage software

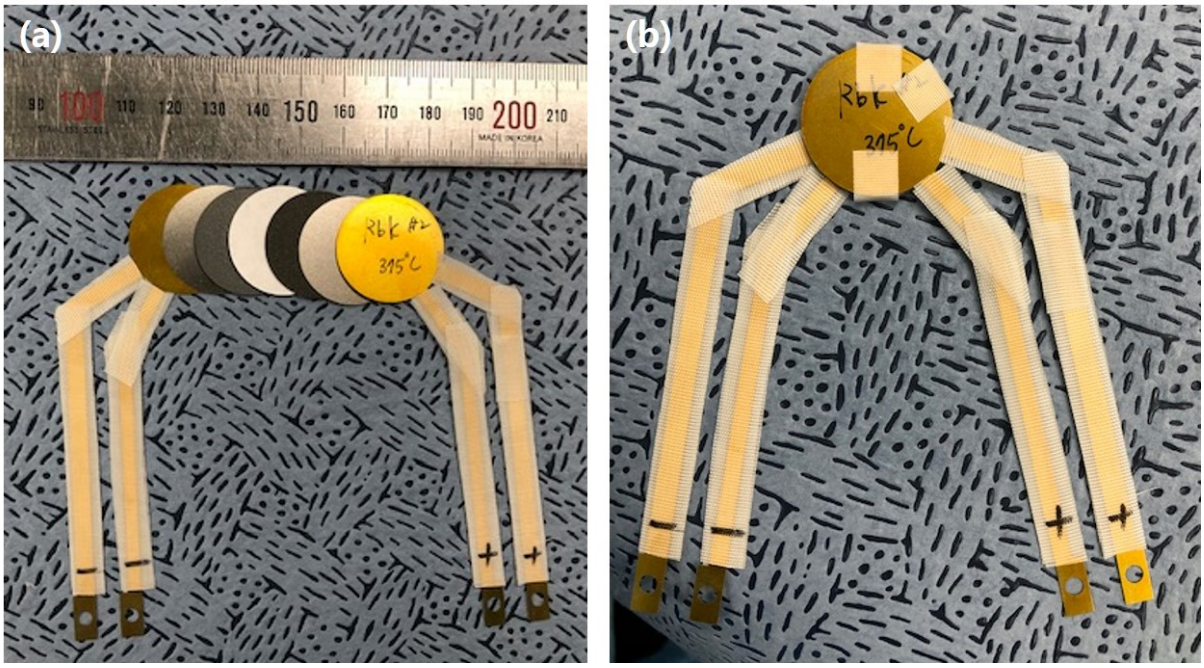

Fig S2. Single cell (a) before and (b) after assembly for battery discharging

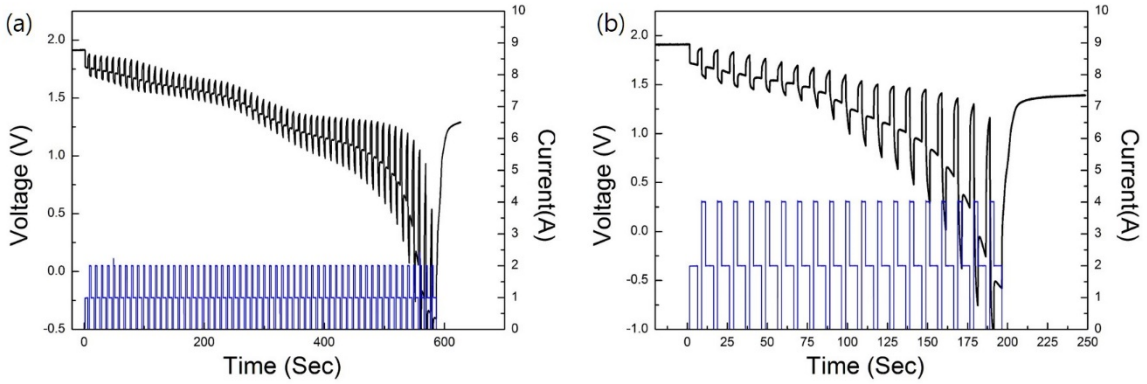

Fig S3. Discharge profiles after one month of storage in a dry room while applying a pulse high current density profile of (a) 1 A (0.2A/cm^2) 2.5 s, 2 A 2.5 s (0.4 A/cm^2) 0 A 1 s, 0.25 A_{avg}/cm^2 and (b) 2 A (0.4A/cm^2) 2.5 s, 4 A 2.5 s (0.8 A/cm^2) 0 A 1 s, 0.5 A_{avg}/cm^2

Fig S4. Assembled single cell after discharge

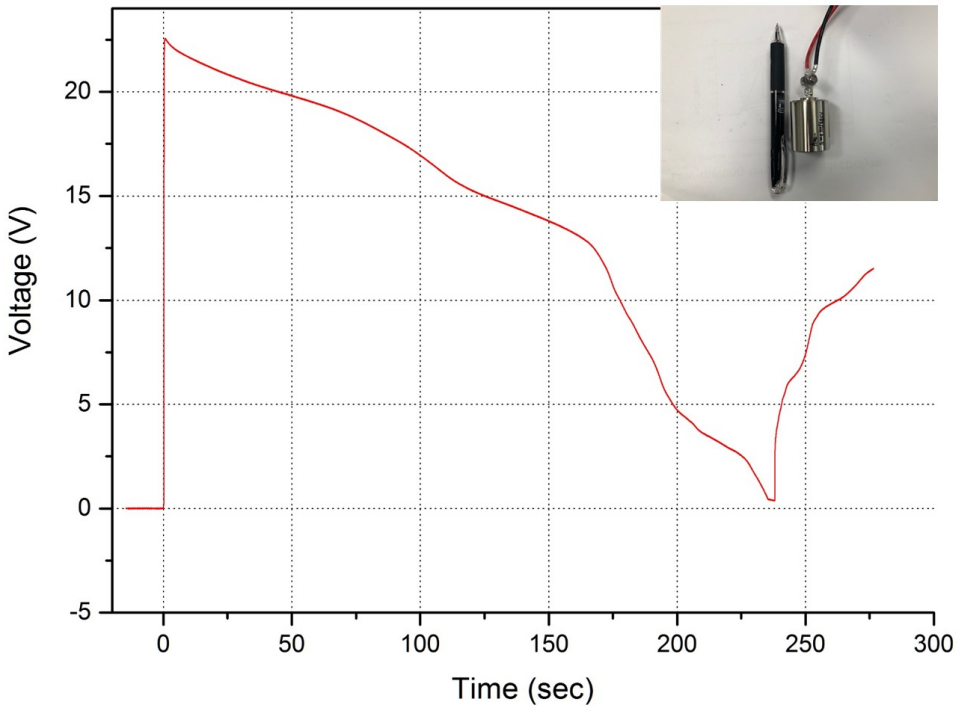

Fig S5. Image of a 12-cell stacked thermal battery and corresponding discharge profile under a high current of 3.1 A (0.6 A/cm^2)