

Nordische

Al-Graphene Battery



Version 1.3

Issued: July 2023

Al – Graphene Battery

Technical Specifications

Specification	Experimentally achieved
<i>Specific capacity</i>	100 mAh g⁻¹ at 500 mA g⁻¹
<i>Nominal Voltage</i>	1.6 V
<i>Avg. voltage</i>	1.86V
<i>Specific Energy Density</i>	150 Wh kg⁻¹
<i>Specific Power Density Charge/Discharge</i>	680 W kg⁻¹
<i>Cycles</i>	2000+
<i>Max Charging</i>	2.44 V
<i>Optimum Charging</i>	2.4 V
<i>Max Discharging</i>	0.4 V
<i>Optimum Discharging</i>	0.8 V
<i>Capacity (amp hours)</i>	8.8 × 10⁻⁴
<i>Power (watts)</i>	5.98 × 10⁻³
<i>Cell over voltage protection</i>	2.45 V
<i>Cell under voltage protection</i>	0.39 V
<i>Cell over temperature protection</i>	111 Degree C
<i>Cell under temperature protection</i>	-35 Degree C
<i>Cell Type</i>	Pouch cell
<i>Operating Temp. range</i>	-40 to 110Degree C
<i>Maximum charge current</i>	10 C
<i>Maximum discharge current</i>	10C



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