



Customcells

Tailor made Energy Storage Solutions.

LITHIUM-POLYMER-ACCUMULATOR

GRAPHITE NMC811

Custom Cells presents high power technology Cathodes:

NMC 811 is the latest cathode development. This material shows 12% more specific capacity than NMC 622. Moreover the material has an improved rate capability. Additionally the amount of cobalt is significantly reduced.

You can purchase the material as electrode foils or cells in various layouts specially customized for you.

Just contact us about your needs:

Custom Cells Itzehoe GmbH

Phone: +49 4821-17 19 19

E-Mail: kontakt@customcells.de

Internet: www.customcells.de

Specifications	
Nominal Voltage	3.7 V
Max. Voltage	4.2 V
Min. Voltage	3.0 V
Capacity	1.0 mAh/cm ² power 2.0 mAh/cm ² balanced 3.5 mAh/cm ² energy
Accumulator format (electrode)	
Length	variable
Width	variable
Quantity of layers	variable
Specific capacity of the electrodes	Up to 60 Ah
Components	
Cathode	NMC 811
Anode	Graphite
Collector (cathode)	Aluminium
Collector (anode)	Copper
Electrolyte	LP30 1% VC
Additional information	
Before cycling please condition the Lithium Ion battery with 1 cycle C/10 (charge: CC+CV, discharge: CC).	

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Fraunhoferstr. 1b
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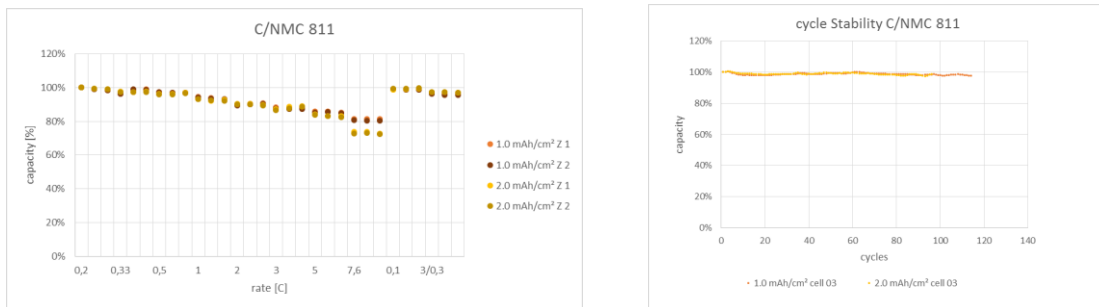


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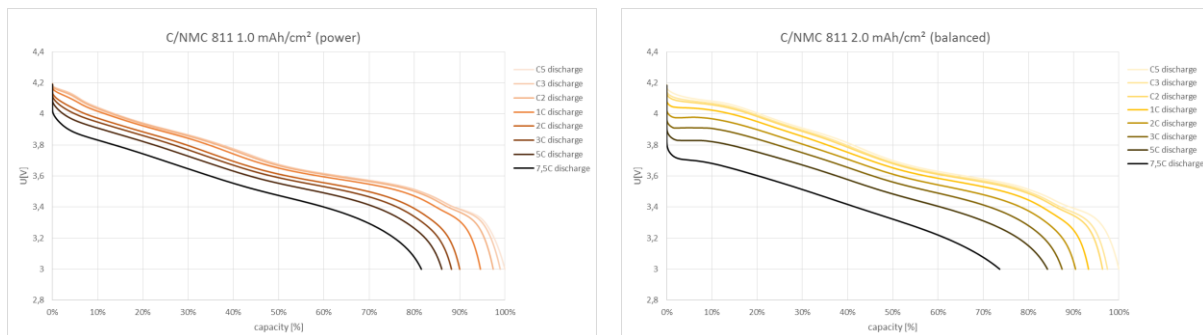
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Picture 1: left: Rate capability of NMC 811 (power: 1.0 mAh/cm²; balanced: 2.0 mAh/cm²) between 0.1 and 7.6C discharge rate and at 3C charging rate;
Right: cycle stability of NMC 811 (power: 1.0 mAh/cm²; balanced: 2.0 mAh/cm²)



Picture 2: left: Potential of NMC 811 (power: 1.0 mAh/cm²) between 0.1 and 7.6C discharge rate;
right: Potential of NMC 811 (balanced: 2.0 mAh/cm²) between 0.1 and 7.6C discharge rate;

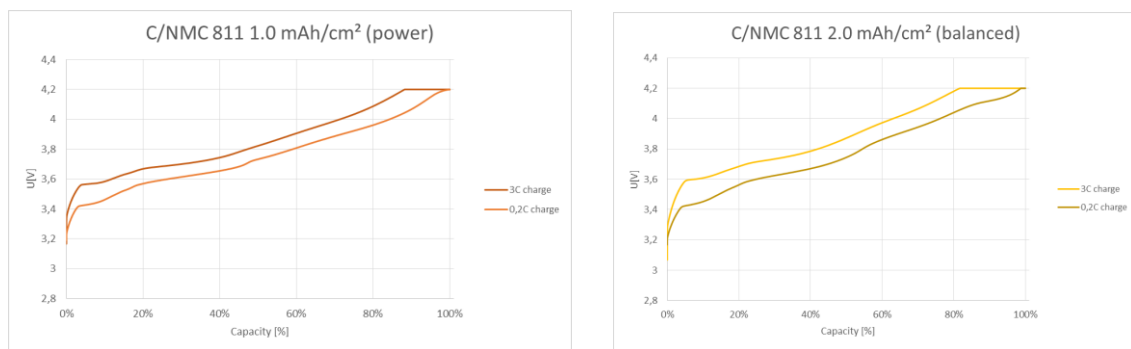


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Picture 3: left: Potential of NMC 811 (power: 1.0 mAh/cm²) at charging rates of 0.2 and 3C rate;
right: Potential of NMC 811 (balanced: 2.0 mAh/cm²) at charging rates of 0.2 and 3C rate;