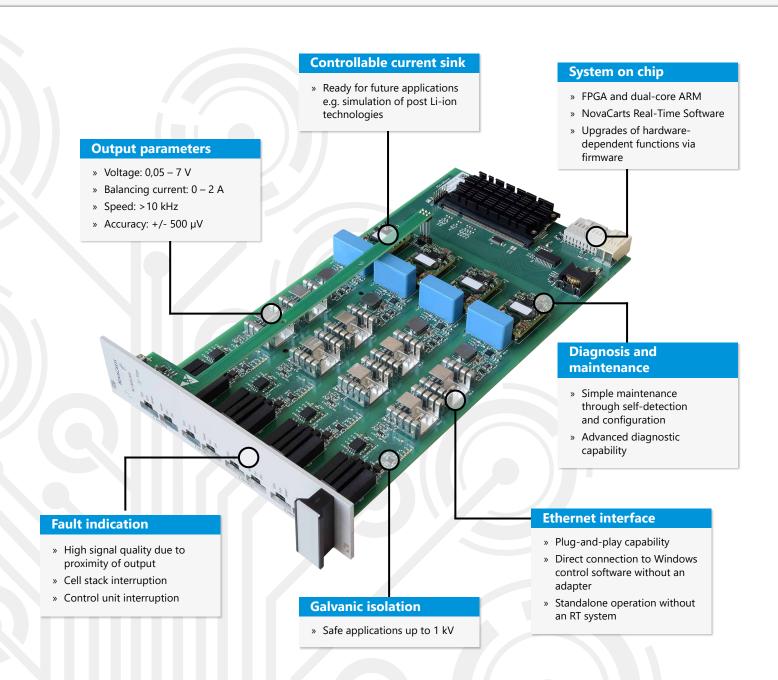


## **NovaCarts Cell Simulation Board**

The board has been especially developed for validating battery management and charging systems. It simulates the electronic behavior of battery cells with an unprecedented degree of precision and speed. Since the cell simulation board is completely flexibly programmable, sophisticated algorithms – such as those used for electrochemical battery models – can be implemented directly on the board.

Due to its great computing power and the short microsecond-based cycles involved, the cell simulation card is ideally suited for the development of future battery management functions, such as cell balanc-ing mechanisms. Furthermore, the card is already able to simulate starter batteries as well as new lithium-technology-based battery types (e.g. lithium solid-state batteries).



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## **Data Sheet**

Module name: **NC-BEB1000**Data sheet version: **2V0** 

Features	
Cell emulation	4 channels
Supply voltage	24 V (control system) 48 V (cell emulation)
Operating temperature	0 to +55 °C
Storage temperature	-20 to +70 °C
Humidity	10 to 90 % (no condensation)
Dimensions	Height: 4U, Width: 8U
Connection to RT system	Ethernet

Specifications	
Output voltage	0.05 – 7 V
Accuracy	+/- 500 μV
Resolution	16 bit
Output current	0 – 2 A – Maximum continuous power sink 6 W
Accuracy	+/- 0,5 %
Resolution	16 bit
Fail insertion	Distribution between cell and cell controller Distribution cell stack
Galvanic isolation	
Channel to channel	1,000 V
Channel to system	1,000 V

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