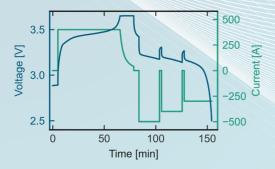
45 CHANNELS @ 0-6V 3.6KW PER CHANNEL

- 0.3 A up to 500 A continuous current (600 A peak)
- up to 1500 A in parallel connection
- including two temperature sensors for each channel

EXEMPLARY CYCLING TEST



SMALL BATTERY MODULES ≤ 20 V

6 CHANNELS @ ±20 V 150 A PER CHANNEL

- 0.15 A up to 150 A continuous current
- max. power per channel: 1.8 kW

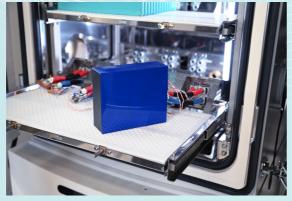
BATTERY CELL AND MODULE TESTING

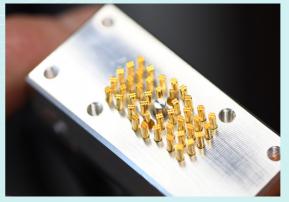
We offer ...

- ... multiple analyses to support product and research development
- ... support for cell parameterization for battery modeling (BMS)
- ... evaluation of parameters being critical for cell performance
- ... accompanying pre-series electrical tests









24 CHANNELS W/ ELECTROCHEMICAL IMPEDANCE SPECTROSCOPY (EIS)

- frequency range: 1 mHz up to 6.5 kHz
- accuracy frequency: 0.005%
- resistance measuring range:0.3 mOhm to 3000 Ohm

POSSIBLE PROCEDURES

- dynamic (e.g. driving profile)
- reference performance tests
- C-Rate tests
- fast-charging
- check ups with EIS

4 TEMPERATURE CHAMBERS

- chamber volume 600 l (3 trays)
 each wtray W/H/D 650 x 255 x 370 mm³
- temperature: -25 °C up to +80 °C
- safety feature:

 $T \ge 90$ °C: nitrogen cooling $T \ge 120$ °C: high pressure water mist for fire suppression



CONTACT US - WE CAN SUPPORT YOU

The range of electrochemical energy systems is big and so is the chemistry within the cells. Depending on the battery application, the battery cells have to be tested for their functionality and applicability with respect to their operational life. Fraunhofer ISC offers testing capabilities ranging from small scale such as coin cells with few mAh up to large cells and small modules.



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