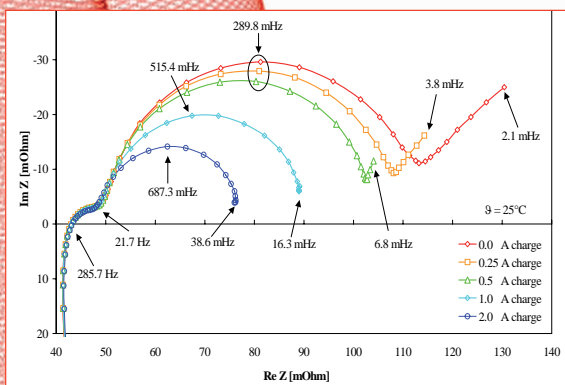


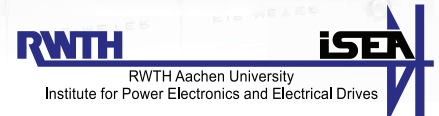
Electrochemical Impedance Spectroscopy

EIS-Meter

- AC impedance evaluation of Energy Storage Devices
- Records impedance spectrum data generated by sinusoidal output waveforms
- User-programmable range of frequency sweeps
- Invaluable tool for component and material optimization
- Characterize device degradation and durability
- Integrate with Life Cycle Testers via CAN-Bus



In cooperation with
ISEA-RWTH,
Aachen - Germany





Results of EIS-Meter

Channel	File	Comment	Disturbance system	Load
11	EIS	2.0 ADC 4.2 VDC 0.01 Hz 6.5 kHz 1.0 AAcMax 10.0 mVideal	ME	Store
12	Charge	CHA	< 0.06 Acc5	1.0 ah
13	CHA	0.06 Acc5	4 h	1.0 ah

Parameterization for EIS-Meter under BTS-600

- DC drift compensation
- Galvanostatic operation
- 4 channels independently programmed and controlled
- Define test parameters and evaluate data with BTS-600 PC Software
- Matched Kelvin Cable sets with gold plated contacts

■ General Data

Resistance range	0.3 - 3000 mΩ
AC current output	2A (p-p)
Resolution	< 100μA
Frequency range	1mHz – 6.5kHz
Frequency accuracy	0.005% of set point
DC Voltage ranges	0-9.5V, 8-20V
Resolution	5μV
Accuracy Z	± 1%
Accuracy arg(Z)	± 1°
Power	65 W per channel
Input voltage	230V/50Hz, 1.2A
Casing (W x D x H)	500 x 500 x 150 mm
Weight	4.43 kg + 2.47 kg per channel
Ambient temperature	15°C – 30°C

