

BaSyTec MRS

Regenerative Battery Test System



**Battery
Cell
and
Module
Test
System**

up to 70V
up to 900A
up to 14kW
with energy
recovery

saves energy / reduces heat generation

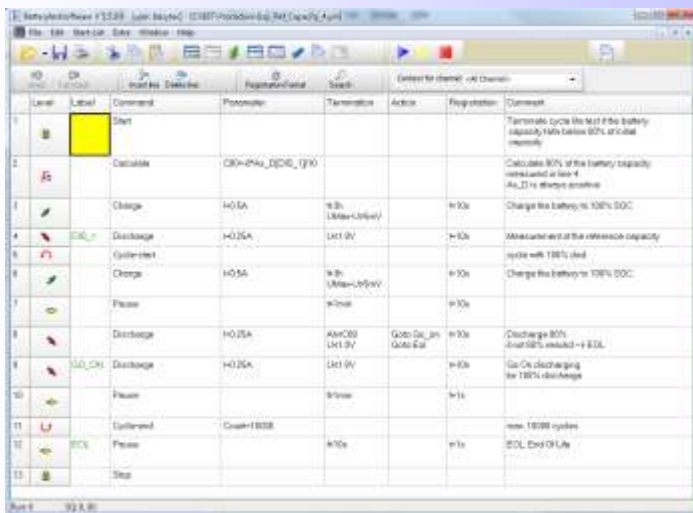
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Main Features

The BaSyTec MRS Regenerative Module Test System is a cost effective solution for the test of battery cells up to 900A (up to 2500A in parallel mode) or modules up to 70V/14kW and 570A (up to 36kW/1500A in parallel mode).

Because of the innovative switched design with energy recovery heat generation is much reduced which results in low working expenses. The discharged energy will be fed back into the grid.

Nevertheless the system offers high precision and speed and is controlled by the well known BaSyTest Software.



Applications

- Parameter Tests
- Endurance Tests
- Abuse Tests
- BMS Tests

Technical Data

Charge Voltage	3-70V	0-6V
Discharge Voltage	3-70V	1-6V
Voltage resolution	3mV	200uV
Voltage precision	15mV	1mV
Meas. U	4-wire	
Current precision	0.05% FS	
Current ripple	< 0.3%FS	
Current rise time	1ms	
Min. pulse length	1ms	
Current ranges	Optional, up to 3	
Range switching	automatic	
Parallel operation	Up to 4 channels	
Standard measurement	Voltage Current 2* Temperature Pt100/4W 2* Aux Voltage (+/-10V)	
Time resolution	1µs	
Channel configurations	70A / 1.5kW 140A / 3kW 210A / 4.5kW 280A / 7kW 360A / 9kW 500A / 12kW 570A / 14kW	100A 200A 300A ... 700A 800A 900A
Control mode	Current (analog) voltage, power, resistance and combinations (digital)	
Options	CAN Interface BSD (Battery Safety Device) CMU Cell Voltage Inputs CMU Type-K, Pt100/4W, NTC SSMS Interface Digital-IO Relay Outputs	
Cooling	Air, temp regulated fans	
Power supply	400V / 3 phases, N, GND	
Power Factor	> 0.99	
Efficiency Charge	Up to 90%	Up to 80%
Efficiency Discharge	Up to 87%	Up to 70%
Software	BaSyTest	
Interface	Ethernet	

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