BaSyTec MRS-HR

Regenerative Battery Test System

6V or 80V

up to 1000A (2400A)

up to 14kW (36kW)

with energy recovery

The BaSyTec MRS-HR is intended for large cells (6V variant) or for modules up to 80V.

The MRS supports many options of the BaSyTec Battery Testers such as additional current ranges, additional inputs, CAN interface, Battery Safety Device, …

Of course also our MRS-HR is controlled by our **powerful and comfortable BaSyTest Software**.

BaSyTec Battery Test Systems

Our Systems are modular, flexible and user friendly

BaSyTec MRS-HR

Regenerative Battery Test System

Technical data:

	80V Variant	6V Variant
Charge voltage	3-80V	0-6V
Discharge voltage	3-80V	1-6V
Voltage accuracy / resolution	16mV / 24Bit	1mV / 24Bit
Channel configurations	70A /1.5kW 140A / 3kW 210A / 4.5kW 280A / 7kW 360A / 9kW 500A / 12kW 570A / 14kW	100A 200A 300A … 600A 800A 1000A
Efficiency charge	up to 90%	up to 80%
Efficiency discharge	up to 87%	up to 70%
4-wire measurement	yes	
Current accuracy / resolution / ripple	0.05%FS / 24Bit* / <0.3% FS	
Time resolution / Current rise time	1 µs / < 1-5ms	
Parallel operation	Yes, up to 4 channels	
Current ranges	optional, up to 3, automatic range switching	
Sampling rate Output change rate	Min. 1ms but not more than 1kHz continually per system	
Standard inputs	Voltage, Current, 2* Pt100/4W, NTC	
Control modes	Current, voltage, power, resistance and combinations	
Cooling	Air cooled, temperature regulated fans	
Power supply	400V / 3 phases, N, GND, power factor >0.99	
Noise	50 – 80 dB(A)	
Other options	CAN interface BSD (Battery Safety Device) CMU cell voltage inputs CMU Type-K, Pt100/4W or NTC temperature inputs SSMS interface Digital-IO or relay outputs	
Software	BaSyTest	
Interface	Ethernet	

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* Not yet supported by the BaSyTest software

BaSyTec Battery Test Systems

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