

# BaSyTec RPS-HR

## Regenerative Battery Test System

**NEW: up to  
1500V**

**up to 1000A  
(3000A)**

**up to 500kW  
(1.5MW)**

**with energy  
recovery**

The BaSyTec RPS-HR is intended for large batteries up to 1500V.

The RPS-HR supports all options of the BaSyTec Battery Testers such as additional current ranges, additional inputs, CAN interface, ... The battery safety device BSD is a standard feature of the RPS-HR.

The RPS-HR is based on the proven reliable power electronics of Gustav Klein GmbH & Co. KG in Schongau.

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



## BaSyTec Battery Test Systems

Our Systems are modular, flexible and user friendly

# BaSyTec RPS-HR

## Regenerative Battery Test System

### Technical data:

Power	Up to 500kW (1.5MW in parallel operation)
Voltage range	Up to 1500V
Voltage accuracy / resolution	0.02% FS / 24Bit* (<=800V) 0.5V / 24Bit* (1000V) 2V / 24Bit* (>1000V)
4-wire measurement	yes
Current range	Up to 1000A (3000A in parallel operation)
Current accuracy / resolution / ripple	0.05%FS / 24Bit* / <0.3% FS
Time resolution /	1 $\mu$ s / < 1ms
Current rise time	< 1ms (600V / 800V), < 5ms (other voltages)
Parallel operation	Yes, up to 3 channels
Current ranges	optional, up to 2, automatic range switching
Sampling rate	Min. 1ms but not more than 1kHz
Output change rate	continually per system
Standard inputs	Voltage, current, 4* Pt100/4W
Control modes	Current, voltage, power, resistance and combinations
Cooling	Air cooled
Power supply	400V / 3 phases, N, GND, power factor >0.99
Efficiency	up to 95%
Noise	max. 79 dB(A)
Isolation monitor	Yes, switchable
Battery simulator mode	Optional but with reduced accuracy and resolution and not supported by the BaSyTest software. Control via CAN instead
Emergency stop	Performance level d
Other options	CAN interface CMU cell voltage/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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