

BaSyTec XCTS Mk II

Regenerative Battery Test System

1-6V

40A / 60A / 80A

**Parallel operation
up to 800A**

Energy recovery

The second generation BaSyTec XCTS Mk II Battery Test system is the replacement of our successful XCTS with 25A or 50A channels.

It is made for test and formation of single cell batteries up to 6V and 800A.

The new XCTS has **more power** and much **better precision** than before.

Of course also the XCTS MK II is controlled by our **powerful and comfortable BaSyTest Battery Test Software**.

Advantages:

- 40A, 60A or 80A output
- Parallel operation for up to 800A
- High precision
- Gold plated connectors
- Small size (19" form factor)
- High energy density
 - Up to 3 automatically dynamically switching current ranges for up to 1mA precision
- Energy recovery, optional to the grid for high energy efficiency
- Powerful and comfortable BaSyTest software



BaSyTec Battery Test Systems

Our Systems are modular, flexible and user friendly

BaSyTec XCTS Mk II

Regenerative Battery Test System

Technical data:

Type	40A	60A	80A
Max. current/chan.	40A	60A	80A
Max. Power/chan.	200W	300W	400W
Parallel operation	Yes, 80A	Optional, 600A	Optional, 800A
Range switching	automatic and dynamic		
Chans/Unit	8 or 20	5, 10 or 12	4 or 10
Voltage range	0-6V		
Min. disch. volt	1V		
Resolution	0.1mV / 1mA	0.1mV / 0.05mA	0.1mV / 1mA
Accuracy	1mV 10mA +0.1% up to 20A 20mA +0.1% up to 40A	1mV 1mA +0.1% up to 1.5A 10mA +0.1% up to 20A 30mA +0.1% up to 60A	1mV 10mA +0.1% up to 20A 20mA +0.1% up to 40A 40mA +0.1% up to 80A
Measurement	Voltage (4W), current, temperature		
Temp. input type	NTC 5k (precision +/-2K) Epcos B57861S0502 or GE TK95		
Time res./rise time	1µs / 1ms		
Sampling rate	Peak 0.5ms	but not more than 1kHz continually per	
Output change rate	Min. 10ms	system	
Current/voltage ripple	< 0.01%FS / < 0.5mV		
Control mode	Current, voltage, power, resistance and combinations		
Energy recovery	Yes, between the channels		
Recovery to the grid	Optional, total efficiency up to 70% (charge) / 60% (discharge)		
Software	BaSyTest		
Interface	Ethernet		
Connector	D-SUB 7W2	D-SUB 9W4	
Noise	70 - 85dB(A) (without recovery to the grid) 60 - 83dB(A) (with recovery to the grid)		
Size/weight/Supply	450mm*310 (180)mm*500/620mm 40kg (25kg), 400VAC / 50Hz / 3 phases+N (230VAC / 16A)		

03/2026

BaSyTec Battery Test Systems

BaSyTec GmbH, Oellinger Weg 17, 89176 Asselfingen, Germany
Tel.: +49 (7345) 238-500, Fax +49 (7345) 238-725, www.BaSyTec.de