

# BaSyTec XCTS

## Cell Test and Formation System



Cell Test and Formation System  
25A or 50A output current  
with energy recovery

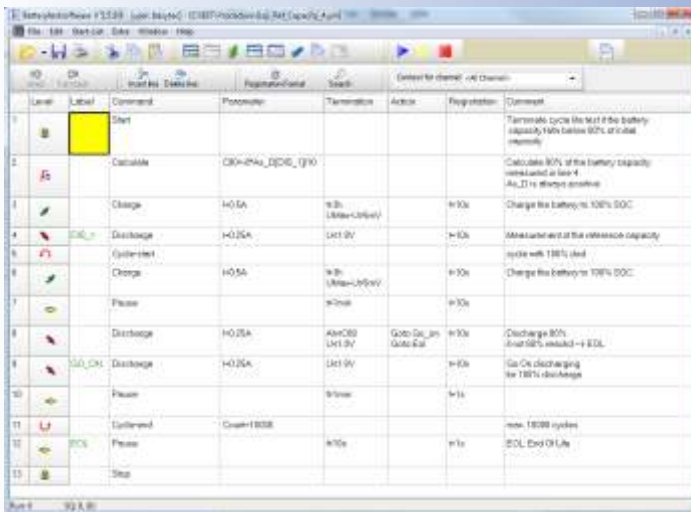
# BaSyTec XCTS Cell Test and Formation System

## Main Features

The BaSyTec XCTS Cell Test and Formation System is a cost effective solution for the test and formation of Lithium cells with up to 25A or 50A.

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

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



## Applications

- Test of large lithium cells
- High power tests of lithium cells
- Pulse test of lithium cells
- Formation of lithium cells

For the 50A Type parallel operation is available as an option. Up to 6 channels can be used in parallel in order to get up to 300A maximum current. The systems will use only the channels necessary to get the actual current which gives you an automatic and dynamic range switching.

## Technical Data

|                                       |   |  |
|---------------------------------------|---|--|
| Type                                  | 25A   | 50A  |
| Max. curr/chan                        | 25A   | 50A  |
| Max. P/chan                           | unlimited   | 220W   |
| Parallel operation.                   | Yes, 50A  | Optional, 300A                               |
| Range switching                       | automatic and dynamic   |  |
| Chans/Unit                            | 12 or 24  | 6 or 12                                      |
| Voltage range                         | 0-4.5V  | 0-6V   |
| Min. disch. volt                      | 0.8V  |  |
| Resolution                            | 0.1mV / 1mA   | 0.1mV / 2mA                                  |
| Precision                             | 1mV<br>50mA up to 25A,<br>100mA up to 50A                       | 1mV<br>50mA up to 25A,<br>100mA per each 50A |
| Meas. U                               | 4-wire  |  |
| Measurement per channel               | Voltage, current, temperature                                   |  |
| Temp. input type                      | NTC 5k (precision +/-2K)<br>Epcos B57861S0502 or GE TK95        |  |
| Time res.                             | 1 s   |  |
| Rise time                             | 2ms   |  |
| Min. pulse length                     | 10ms  |  |
| Current ripple                        | < 0.1%FS  |  |
| Voltage ripple                        | < 0.5mV   |  |
| Control mode                          | Current, voltage, power, resistance and combinations            |  |
| Energy feedback to the grid           | Optional, total efficiency up to 85% (charge) / 65% (discharge) |  |
| Software                              | BaSyTest  |  |
| Interface                             | Ethernet  |  |
| Connector                             | D-SUB 7W2   | Phoenix PC16                                 |
| Size/weight/Supply<br>No feedback     | 450mm*310 (180)mm*500mm<br>35kg (20kg), 230VAC / 16A (10A)      |  |
| Size/weight/Supply<br>Energy feedback | 450*310*620mm<br>57kg, 400VAC / 50Hz / 3 phases+N               |  |

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