

Lithium Cell Tester

MCT Series



- For Testing Lithium Cells or Other Advanced Cell Technology
- Cycling, Capacity and Internal Resistance Testing
- High-Density Modular Design with up to 128 Circuits per Cabinet
- Current Range: up to 1200 A
Voltage Range: 0 to 6 V
- Current Range Switching and Paralleling of Circuits
- Bipolar Power Outputs: Fast Mode Switching
- Additional Input Channels via CAN-Bus
- Plug-In Modular Design for Ease of Service
- Controlled by Battery Manager or BTS-600 PC Software



General Data

Control Interface:	BTS
PC Software:	Battery Manager or BTS-600
Accuracy Uni/Multi Range:	$\pm 0.1 / \pm 0.2$ % full scale
Resolution Uni Range:	± 15 Bit
Resolution Multi Range:	± 13 Bit
Current Ranges:	4 (1; 0.1; 0.01; 0.001)
Data Acquisition Rate:	2 ms per circuit
Control Rate:	2 ms per circuit
Fast Mode Switching:	< 10 ms from charge to discharge
Max. Total Current per Cabinet:	1200 A
Max. Voltage per Circuit:	6 V
Max. Circuits per Module*:	4
Max. Modules per Cabinet:	40
Input Power Supply:	3-phase, 50/60 Hz

* For I<15A up to 4 circuits per module can be paralleled.



Individual Technical Data

Model Designation	Current *1 [A]	Voltage *2 Charge/Discharge [V]	Number of Circuits	Cabinet Size	Power Supply [kVA]
MCT 5-06-32	5 - 5000 mA	0 - 6	32	S	2,3
MCT 5-06-128	5 - 5000 mA	0 - 6	128	M	9
MCT 10-06-32	0.01 - 10 A	0 - 6	32	S	5
MCT 10-06-120	0.01 - 10 A	0 - 6	120	M	17
MCT 50-06-8	0.05 - 50 A	0 - 6	8	S	6
MCT 50-06-24	0.05 - 50 A	0 - 6	24	M	17
MCT 100-06-4	0.1 - 100 A	0 - 6	4	S	6
MCT 100-06-12	0.1 - 100 A	0 - 6	12	M	17
MCT 200-06-2	0.2 - 200 A	0 - 6	2	S	6
MCT 200-06-6	0.2 - 200 A	0 - 6	6	M	17

*1 Mixed current ranges are possible.

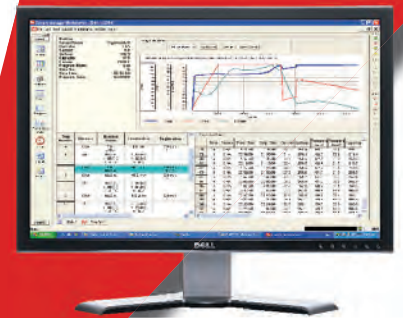
*2 Higher voltage ranges available on request.

Cabinets

Size	Dimensions (H x W x D) [mm]
S	1100 x 670 x 850 (43.3" x 26.4" x 33.5")
M	1950 x 670 x 850 (76.8" x 26.4" x 33.5")
L	2250 x 670 x 850 (88.6" x 26.4" x 33.5")

Options

Additional Voltage, Temperature, Analog Inputs
Inputs for Reference Electrodes
I/O for Auxiliary Devices
RS-232, CAN Interface
Negative Voltage Range for Reverse Charge Abuse Test (UL 2271 7.7)



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