

Small 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 160 Circuits per Cabinet
- Current Range: up to 30 A
Voltage Range: 0 to 5 V
- Current Range Switching and Paralleling of Circuits
- Bipolar Power Outputs Eliminate Zero Crossing Dead Zones
- 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:	± 0.1 % Full Scale
Resolution:	± 13 Bit
Data Acquisition Rate:	2 ms per Circuit
Control Rate:	2 ms per Circuit
Fast Mode Switching:	No zero crossing dead zones.
Current Ranges:	4 (1; 0.1; 0.01; 0.001)
Max. Current per Circuit:	30 A
Max. Voltage per Circuit:	60 V
Max. Circuits per Module*:	4
Max. Modules per Cabinet:	40
Input Power Supply:	3-phase, 50/60 Hz
Ambient Temperature:	10-40°C (50-104°F)

* 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 5-05-16	5 - 5000 mA	0 - 5	16	S	1
MCT 5-05-48	5 - 5000 mA	0 - 5	48	S	3
MCT 5-05-144	5 - 5000 mA	0 - 5	144	M	9
MCT 5-05-160	5 - 5000 mA	0 - 5	160	L	10
MCT 10-05-16	0.01 - 10 A	0 - 5	16	S	2
MCT 10-05-48	0.01 - 10 A	0 - 5	48	S	6
MCT 10-05-128	0.01 - 10 A	0 - 5	128	M	16
MCT 30-05-8	0.03 - 30 A	0 - 5	8	S	3
MCT 30-05-40	0.03 - 30 A	0 - 5	40	M	15

*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



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