

Lithium - Ion Lithium - Polymer



CELL DETAIL CELL 1

Cell	Cell Name	Step	Time (Hours:Minutes)	Voltage (Volts)	Current (Amperes)	Capacity (mAh)	Capacity (mAh/Hours)
1	In the process of forming	2	00:30:30	1.300	1.500	10000	0.270
2	In the process of forming	1	00:11:00	1.250	1.500	10000	0.200
3	In the process of forming	1	00:11:00	1.250	1.500	10000	0.200
4	In the process of forming	1	00:11:00	1.250	1.500	10000	0.200

CELL STATUS TRAY 1

10 20 30 40 50 60 70 80 90 100 110 120
 9 19 29 39 49 59 68 77 87 97 107 117 127
 8 18 28 38 48 58 67 76 86 96 106 116 126
 7 17
 6 16
 5 15
 4 14
 3 13
 2 12
 1 11

FIXTURE STATUS UNIT 1

TRAY	Remaining time	Elapsed time	Failed cells	TRAY	Remaining time	Elapsed time	Failed cells
ABORT TRAY 1	01:13:00	00:48:30	0	START TRAY 9	02:07:30	00:00:00	0
START TRAY 2	02:07:30	00:00:00	0	START TRAY 10	02:07:30	00:00:00	0
START TRAY 3	02:07:30	00:00:00	0	ABORT TRAY 11	01:56:30	00:11:00	0
ABORT TRAY 4	01:43:00	00:24:30	0	START TRAY 12	02:07:30	00:00:00	0
START TRAY 5	02:07:30	00:00:00	0	ABORT TRAY 13	01:56:00	00:11:30	0
START TRAY 6	02:07:30	00:00:00	0	START TRAY 14	02:07:30	00:00:00	0
START TRAY 7	02:07:30	00:00:00	0	START TRAY 15	02:07:30	00:00:00	0
START TRAY 8	02:07:30	00:00:00	0	ABORT TRAY 16	01:55:30	00:12:00	0

LEGEND

RED: The MCCD handling this tray has an error.
GREEN: Formation program is running.
GRAY: Formation program is finished, tray still in unit.
YELLOW: Erasing or Initated, waiting for trigger.
WHITE: The tray is not in the unit.

YELLOW: Has no Compl
RED: Failed
VIOLY: Failed

Multi-Cell Formation and Testing System

- ▶ Charge (CV/CC) and Discharge (CC) at up to 8A
- ▶ Measures Voltage, Current, Cell Impedance (AC), OCV, Capacity, Cell Resistance, and Probe Resistance
- ▶ Small Size - 128 Channels in 1000x670x825 mm cabinet or
- ▶ Large Scale Systems in excess of 40,000 channels

More Details



Product Highlights

Specifications

- ▶ 128 - 2048 channel per cabinet
- ▶ 5 V, 2 A per channel
- ▶ Constant current/constant voltage
- ▶ Voltage accuracy: 0.1% +/- 1 mV
- ▶ Current accuracy: 0.1% +/- 1 mA

Safety features

- ▶ Continuous probe contact check
- ▶ Programmable charge/discharge limits
- ▶ Hardware watch-dog timer
- ▶ Configurable digital I/O

Provides control and measurements needed to make application specific measurements on cells

- ▶ Accurate control at both high and low C-rates
- ▶ Integrated measurement of key cell parameters including capacity and resistance

Reduces operating costs

- ▶ Energy efficient
- ▶ Automated self-calibration - 256 channels in 20 minutes
- ▶ Modular system for easy maintenance
- ▶ 1-year warranty

Flexibility

- ▶ Fully programmable
- ▶ Runs charging and discharging steps autonomously while collecting and storing measurements

Easy system integration

- ▶ Integrated system features
- ▶ Control over LAN
- ▶ Small size

Interested in a total solution?

Digatron/Firing Circuits is the systems integrator of choice providing large scale, manufacturing systems for formation / test of advanced Lithium cells. With manufacturing facilities in Germany, Shelton (CT) USA, and Qingdao, China we can satisfy your requirements and provide local service and support.

Want to learn more?

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Lithium-Ion and Lithium-Polymer Cell Manufacturing Systems

Wherever batteries are produced or used as components in a system, test and formation equipment from Digatron/Firing Circuits represents the state of the art.

Digatron / Firing Circuits provides the total solution - fully integrated turnkey systems controlled by Multi-Cell Formation and Test Software. World-class service and technical support complement each installation.

Digatron / Firing Circuits can now provide the entire system with and without Cell fixturing for small sized laboratory needs or large scale formations.