

BRC16

Battery Cell Discharger

- Discharge up to 16 prismatic cells simultaneously
- Efficient deep discharge for recycling
- Discharge currents up to 100A DC
- Thermal monitoring for safe discharge
- Automated emergency water basin drop with overheating
- Real-time test parameters monitoring on 10 inch touch screen display



Description

The **BRC16 Battery Cell Discharger** is designed to provide a secure and efficient solution for deep-discharging prismatic Li-ion cells down to 0 volts. Intended for industrial settings, the **BRC16** ensures cells are adequately discharged for recycling, testing, or safe transport. It offers advanced safety features, user-friendly operation, and robust performance, making it ideal for battery recycling facilities, research and development labs, and other high-demand environments.

Operational features

- **Independent discharge channels**
With 16 independent discharge channels, the **BRC16** allows multiple cells to be discharged simultaneously. Each channel operates independently, giving full control over the discharge process for each cell.
- **User-focused design**
The **BRC16** features an easy-to-use 10-inch color touchscreen that allows operators to set discharge parameters, view real-time data, and adjust limits if necessary. The interface displays the status of each cell being discharged.
- **Thermal monitoring**
Two built-in thermal cameras and individual temperature sensors ensure the cells stay within a safe temperature range throughout the discharge process.
- **Emergency Stop & Water Basin**
In case of overheating or fire hazard, the system automatically drops the cells into a water basin to cool them down. This feature can also be activated manually using the **Fire Hazard Button**.
- **Automated alarms**
Audible alarms and visual alerts provide immediate feedback in case of any operational abnormality.

- **Real-time monitoring**

A real-time graphical and numerical monitoring of discharge parameters, including voltage, current, capacity, and temperature for each cell. The progress is visible on-screen for easy analysis.

- **Adjustable discharge parameters**

Operators can set discharge limits for voltage, temperature, and current to match the specific requirements of each battery type. The system also supports predefined discharge profiles to streamline operations when dealing with recurring tasks.

- **Data logging**

The discharge results are automatically saved in the internal memory and can be exported for further analysis.

Technical Data

Mains Power Supply

- Connection according to IEC/EN60320-1;
- Voltage:
220 V – 380 V AC, 50 / 60 Hz, three-phase
- Input Power 5920 VA:
- Fuses: 3 x 32A – 400V, 3-pole C

Dimensions and Weights

Element	Dimensions	Weight
Workbench*	202 x 72 x 190 cm 79.5 x 28 x 74.8 in	380 kg 838 lbs
Water basin (empty / full)	173 x 51 x 52 cm 68.1 x 20.1 x 20.5 in	75 kg / 435 kg 156 lbs / 959 lbs
Discharge cabinet	71.5 x 71.5 x 195 mm 28.1 x 28.1 x 76.8 in	310,0 kg 684 lbs.

* With thermal cameras: 202 x 103 x 190 cm
79.5 x 40.6 x 74.8 in

Maximum discharge Current & Power

Model	Current	Power
BRC16*	100 A / cell	8,0 kW

Measurement

	Range	Typical accuracy
Voltage	0 – 5 V DC	± (0.1% rdg + 10mV)
Current	0 – 100 A DC	± (0.5 % rdg + 05 % FS)

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Subject to change without notice.

Supported Cell dimensions

	Min	Max
Cell length*	147 mm / 5.8 in	300 mm / 11.8 in
Cell height	76 mm / 3 in	118 mm / 4.6 in
Cell width	26 mm / 1 in	35 mm / 1.4 in
Cell weight	0.74 kg / 1.6 lbs	1.8 kg / 4 lbs

Environment conditions

- Operating temperature:
0 °C to +40 °C / 32 °F to +104 °F
- Storage & Transportation temperature:
-20 °C to +70 °C / -4 °F to +158 °F
- Relative humidity: up to 95%, non-condensing

Applicable standards

- Machine Directive 2006/42/EC
- Electromagnetic Compatibility Directive 2024/30/EU

*All specifications herein are valid at an ambient temperature of +25 °C / + 77°F and recommended accessories.
The company reserves the right to change the specification or design without prior notice*

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