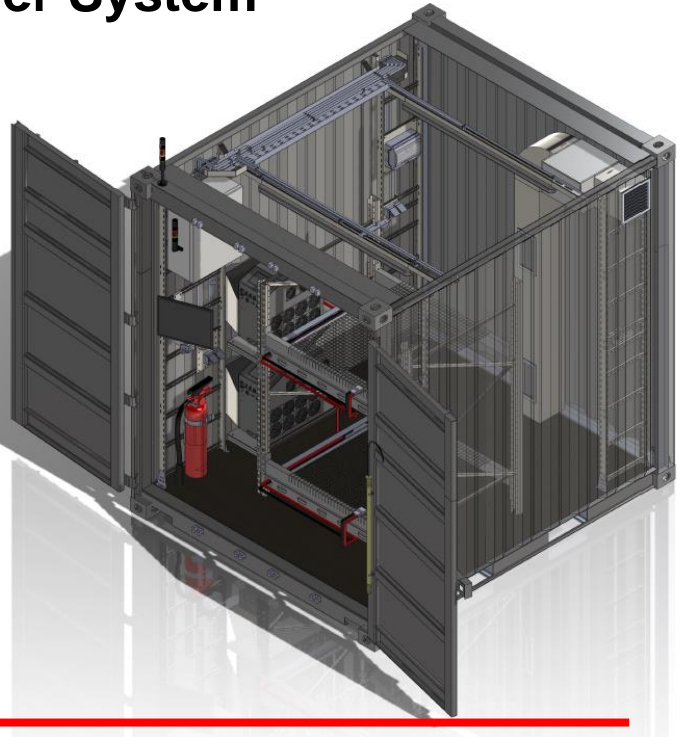


BDCS

Battery Discharge Container System

- Safe and efficient discharge of battery packs before recycling
- Discharging performed with DV Power BLU-C series equipment
- Central control system
- Industrial display with user-friendly interface
- Thermal monitoring
- Detection of gas
- Ventilation system for dissipation of heat created during the discharging process



Description

The Battery Discharge Container System (BDCS) is designed to offer a safe and effective way of discharging battery packs before recycling. Utilising a 10' container it is possible to perform the discharging process outside. By incorporating a well-designed discharge system, it is possible to extract residual energy safely and efficiently from the batteries with the BDCS, facilitating the subsequent stages of the recycling process.

Operational features

- **Discharging**
Discharging is performed with the use of DV Power BLU-C series battery load units. The system includes two of these units that can be used simultaneously and are controlled by the central control system. The equipment featured in the main design of the BDCS are two BLU700C. The main design can be adapted to suit customer's needs.
- **User-focused design**
The BDCS features an user-friendly industrial computer with a 15-inch display. The operator can easily access the menus to set up the discharging parameters. During the discharge process the visual feed from two thermal monitoring cameras is also displayed to allow the operator to visually track the data from thermal monitoring.
- **Thermal monitoring**
Two built-in thermal cameras monitor the discharging process. Through the set up of discharging parameters the operator can set the temperature value to be monitored. If the cameras measure a higher value, the test will automatically be stopped.

- **Central control system**

The system features a central control system equipped with a PLC which is used to gather inputs from different sensors (user interface – industrial computer, thermal cameras, gas detection sensor, emergency stop button, etc.) and reacts accordingly. The system operates two alarm towers with visual and audio signalization and stops the discharging process if deemed necessary.

- **Mechanical installation**

The system is equipped with a rack system with shelves that serves as a carrier for battery packs intended for discharging before recycling. The rack system has two levels allowing for two battery packs to be discharged simultaneously.

- **Ventilation system**

The system includes a ventilation system to dissipate the heat created during the discharge process. This is critical for the system to function as expected.

Technical Data

Mains Power Supply

- Consumption demand of the BDCS: ~3500 W, peak power

Dimensions and Weights

| Product | Dimensions (10' container) | Weight |
|---------------------|--|--|
| BDCS | 2991 x 2438 x 2591 mm 117.8 x 95.9 x 102 in | Total weight: ~900 kg ~1985 lbs |
| Rack system shelves | 1325 x 1100 mm 52.2 x 43.3 in | Loading capacity: 1000 kg 2200 lbs |

Measurement

| | Range | Typical accuracy |
|---------|---------------|-------------------------|
| Voltage | 0 – 705* V DC | ± 0.5% of rdg ± 0,1 V * |
| Current | 0 – 300* A DC | ± 0.5% of rdg ± 0,2 A * |

*For BLU700C model

Environment conditions

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

Maximum discharge Current & Power

| Product | Current | Power |
|---------|---------|---------|
| BDCS* | 260 A | 42,0 kW |

*Per BLU700C unit

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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