



VoltDrain - Battery Discharging Container

A modular and turnkey battery discharging solution

Brochure

The WireFlow **VoltDrain** system is a robust, modular solution designed specifically to facilitate the safe discharge of electric vehicle (EV) batteries in recycling and discharging facilities. It offers a comprehensive, turnkey approach for discharging EV batteries by providing all the necessary equipment within a containerized format. Its ease of use, modularity, and emphasis on safety make it an ideal choice for operations looking to efficiently manage the discharging process while minimizing installation complexity and cost.

Whereas the benchmark [WireFlow Bifrost series](#) offers advanced, regenerative solutions for performing both characterization (such as SOH measurements) and complete discharge of EV batteries for recycling), **VoltDrain** is designed specifically for discharging EV batteries only to offer a price competitive, safe, turnkey and plug-and-play solution to all battery recycling centres or discharging facilities.



Illustration of VoltDrain - Battery Discharging Container

Wire Flow's **VoltDrain** system is an all-in-one discharging solution which includes all you need to start or scale up a battery discharging process. Based on availability of space or consideration of discharging volume, you can select between our 10 ft or 20 ft container solutions.

- Each container is delivered fully prepared with a safe discharging technology, ensuring quick setup and ease of use.

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- The systems require only a standard 230V power outlet, ensuring effortless installation and allowing flexible placement either outdoors or within your facility to best suit your operational needs.
- Designed with versatility in mind, the system supports multiple EV battery types and offer a hassle-free and plug-and-play solution for diverse application.

Each turnkey VoltDrain solution includes the following:

- 10ft or 20 ft container
- PC running HMI
- Multi-channel discharge equipment including battery connectors and WF current control modules
- Integrated IR cameras
- Gas detectors
- Installed heavy-duty shelf

VoltDrain is modular which means that you can add or remove any of the components above based on your needs.

Safety features

- IR Camera for temperature monitoring with automatic shutdown
- Night-mode with lower current for extra safe discharge when no operator is available
- Polarity check
- Over voltage protection
- Over power protection
- Equipped with a secure explosion hatch, the container ensures maximum safety by providing robust protection against explosive forces and hazardous incidents

Easy-to-use HMI

- All sensors, IR cameras and electrical equipment are monitored and controlled by a user-friendly HMI
- Easy to learn and use for speeding up the training of your new operators
- Each channel is monitored and controlled independently
- Emergency stop button

No-cost heat dissipation solution

- The system is designed with roof-mounted heat dissipation units removing the need for active cooling or ventilation system to bring down the cost for customers

Fast Operation features

- Quick-connect battery connectors for fast setup
- Configurable maximum discharge current
- Innovative total discharge to zero volt



Reporting and integration to your IT system

- Discharging and operator report with possibility to integration to your IT system

Specifications

Systems	VD 1	VD 2	VDC (customised)
No. of Channels	32	32	1-100
Battery Voltage	0-75V	0-75V	0-75V
Discharge Power Rate (max)	1kW	2kW	0.1-2.5kW
Current (Max)	20	40	20-80
Temperature Monitoring	Integrated IR Camera X4	Integrated IR Camera X4	Integrated IR Camera X0-8
Safety features	Night Mode, Reverse Polarity, Over Voltage, Over Voltage, Over power	Night Mode, Reverse Polarity, Over Voltage, Over Voltage, Over power	Night Mode, Reverse Polarity, Over Voltage, Over Voltage, Over power
Communication Interface	USB, Ethernet, Wifi	USB, Ethernet, Wifi	USB, Ethernet, Wifi
User Interface	Industrial PC	Industrial PC	Industrial PC
Cooling system	Open Air (Roof design)	Open Air (Roof design)	Open Air (Roof design)
Container	10 ft	10 ft	10-20ft
Shelf System	Heavy-duty	Heavy-duty	Heavy-duty
Time to discharge*	4h	2h	X

* Typical discharge time for some different module types at 50% SOC*

Do you aim to run tests before discharging the batteries? Please check our Bifrost Series or contact us directly on sales@wireflow.se for more information.