EverFlow® Storage Container

Energy Storage Anytime, Anywhere - Industrial Solution

The EverFlow® Storage Container is installed in projects from kW to MW scale. A single 20' container typically offers 50 kW of power and a capacity of 200 kWh. Storage Containers can be integrated in neighborhood power stations and car charging stations or large scale projects. The batteries are scalable, intrinsically safe, and fast and easy to install, since all components and tanks are integrated in a container.

SCHMID
Expect Solutions

EVERFLOW® STORAGE CONTAINER

Details

EverFlow® Storage Containers are based on a modular design. They can be configured to match the required power and capacity requirements of your application. The Storage Container systems are based on standard sea freight containers starting from kW/kWh (single container) up to MW/MWh (combining multiple containers). The containerized VRFB allows fast installation, safe operation and controlled environmental conditions.

SCHMID's Storage Containers are designed for neighborhoods, public buildings, medium to large businesses and utility scale storage systems, weak- or off-grid, e-mobility or as backup systems. The EverFlow® Storage Container makes it possible to store the energy produced by photovoltaics, wind turbines, or CHP. Due to its high cycle lifetime, EverFlow® energy storage system is also used for peak-shaving, thereby reducing your electricity bill.

The electrolyte does not self-discharge in the tanks, which is a unique feature of the Vanadium Redox Flow Technology. The electrolyte is based on Vanadium which is dissolved in a water based solution, making it non-flammable and non-explosive. The electrolyte maintains its value as it can be recycled and reused for new flow batteries.

The Eco-Design, using common industrial components, guarantees easy maintenance and a long expected lifetime of ≥ 20 years. Real-time monitoring and self-diagnosis help optimizing the use of the battery to maximize lifetime, efficiency, and your profit.

Technical Data

Grid connection:

- 3-phase AC | 400 V
- Output frequency 50 Hz / 60 Hz

Remote access and monitoring:

- LAN or GSM (option)
- Operating parameters: SoC, charge-/ discharge power, etc.
- Modbus TCP (IP/UDP)

Environmental conditions:

- Average ambient temperature -20 °C to +40 °C
- Relative humidity 0 - 95 %, non-condensing

Power and capacity:

- Scalable from kW/kWh up to MW/MWh
- 100 % Depth of discharge without effect on lifetime

Dimensions / Layout:

- 20' or 40' container(s)

Maintenance and product warranty:

- Annually | Warranty: 12 months
- Service contract available on request for warranty extension

Benefits

- Attractive price and long asset lifetime
- Expected lifetime: ≥10,000 cycles or ≥20 years
- Independant scaling of power and capacity
- Increased self-consumption of renewable energy
- Environmentally friendly and safe operation
- Water based electrolyte: non-flammable and non-explosive

German Version

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