

EverFlow® Compact Storage



100%
MADE IN
GERMANY

Energy Storage Anytime, Anywhere - Easy Integration

Thanks to the most compact design possible the SCHMID Compact Storage systems are ideally suited to be placed in the basement, the garage or in a commercial building. Based on the powerful Vanadium Redox Flow Technology the EverFlow® Storage solution increases your self consumption and your independency.

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vsun energy

SCHMID
Expect Solutions

Details

Developed and manufactured in Germany, SCHMID offers three different sizes of the EverFlow® Compact Storage systems - perfectly tailored for private homes, small to medium businesses, off-grid or as a backup system. Based on the powerful Vanadium Redox Flow Technology the compact design allows a fast installation and safe operation.

The EverFlow® Compact Storage enables you to store the energy produced by photovoltaics, wind turbine or any other source. Making it possible to use the stored energy when required - during the day, at night or in case of a grid failure. Become more independent of the fluctuating electricity prices and use your own produced green energy.

The electrolyte has no self-discharging inside of the tanks, a uniqueness of the Vanadium Redox Flow Technology. Depending on the current demand, energy is stored in the electrolyte or delivered to the grid. The fact that the vanadium is dissolved in a water based electrolyte makes it non-flammable and non-explosive. The Eco-Design paired with industrial components makes the battery repairable, therefore the battery has an expected lifetime of 20 years. The electrolyte maintains its value as it can be recycled and reused for new flow batteries.

An easy to handle smartphone app allows monitoring the battery status and all measurement values. An integrated data logger helps maximizing your profit.

Technical Data

Grid connection:

- 1-phase AC | 230 / 110 V
- Output frequency 50 / 60 Hz ($\pm 0,1$)

Remote access and monitoring:

- Via LAN or GSM (option)
- Operating parameters like: SoC, energy content, charge-/ discharge power, etc.

Environmental conditions:

- Average ambient temperature $+5\text{ }^{\circ}\text{C}$ to $+30\text{ }^{\circ}\text{C}$
- Relative humidity 0 - 95 %, non-condensing

Power and capacity:

- Power: 5 kW | Capacity: 15, 30 or 45 kWh
- 100 % deep discharge capable without damage
- Efficiency: DC $> 80\%$

Dimensions (LxWxH) and weight:

- CS 5/15: 1,21 x 0,80 x 1,74 m | 1,500 kg
- CS 5/30: 2,00 x 0,80 x 1,92 m | 2,700 kg
- CS 5/45: 2,00 x 1,17 x 1,94 m | 3,900 kg

Ventilation:

- Ventilation or air exchange of $\geq 3\text{ m}^2/\text{h}$

Maintenance and product warranty:

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

Benefits

- Attractive price and lasting value
- Typically $\geq 10,000$ cycles or 20 years expected lifetime
- Environmentally friendly: CO2 neutral green energy
- Compact design
- Expandable: Up to 9 systems can be coupled
- Intrinsically safe: Non-flammable and non-explosive due to water based electrolyte



German Version