



es|flow

Safe renewable **energy storage** for up to 25 years.

ES Flow 8/40

Is a vanadium redox-flow battery designed to provide scalable and reliable.

This 8 kW battery unit lets you choose the optimal storage capacity for your renewable energy sources.

It offers an impressive DoD of 100% without negative effects to the lifetime expectancy or the capacity of the battery.

In addition, the ES Flow's electrolyte is inflammable, completely green and 100% made in Europe. Moreover this battery is

easily recyclable at the end of its life in a very environmentally friendly way.

The large amount of Vanadium in the electrolyte combined with the fact that the electrolyte can be used for multiple decades, makes the ES Flow an investment with a considerable residual value that **can be upgraded by adding up to 40kWh of electrolyte.**

For large residential users and small & medium-sized enterprises

ES Flow is designed for large residential users and small and medium-sized enterprises who are looking to invest in high quality storage for their renewable energy production.

Minimize your energy bill & prevent peaks in your consumption

Large residential solar installations usually inject over 70% of their production into the grid. While owners do get reimbursed for this injection, the average feed in tariff fluctuates around 25% of the total electricity price from the grid.

ES Flow helps minimizing your total electricity cost from the grid by

maximizing your self-consumption and reducing your grid purchases when electricity costs are high.

Reliability & durability

The ES Flow 100% depth of discharge allows you to completely utilise the capacity of your battery and maximise the self-consumption of your renewable energy production without reducing the lifetime your battery of 16.000 cycles. Protected and managed by our own European battery management system your ES Flow will be monitored to always perform at maximum efficiency.

Safe & green investment

ES Flow provides a non-flammable energy storage solution for up to 25 years. The amount of vanadium in the electrolyte, which is easily

recyclable at the end of its life, combined with the fact that the electrolyte can be used for multiple decades, makes the ES Flow an investment with a considerable residual value.

Scalable solution

ES Flow provides the right storage capacity for you. Together we can provide you with a starting capacity of 10, 20, 30 or 40 kWh.

While you will always have the option to upgrade upwards to 40 kWh

Electricperformance

Rated capacity	10 up to 40kWh*
Self-discharge	< 1% discharge per month
Ratedpower	8kW
Maximumpower	10kW
Nominalvoltage	48V
Operating DC voltage range	40 - 62V
Maximum DC (dis)charge current	250A
Battery life	Over 25 years, > 16.000 cycles
Depth of discharge	0 - 100%
Efficiency	Up to 80% DC-DC efficiency

Physicalparameters

Physical dimensions	2.278mm x 1.180mm x 1.909mm
Total weight	± 3.500 kg
Protection	IP54
Communication interface and protocol	Ethernet, Modbus TCP, web interface
Material	Tanks in PP, piping in PVC, aluminium casing, stainless steel structure