

VisFlow

10 kW Indoor module



Energy storage - for a greener future

Energy storage is an important part of a green and sustainable future. Burning coal and gas must be a thing of the past, which we will look back on within 10 years as a former necessity. Instead, we must focus on renewable energy sources such as solar and wind energy.

With passion for sustainability, we at VisBlue have developed a battery where it is possible to store this solar and wind energy and use it at a desired time. The battery is scalable and can therefore be designed as needed. In addition, the battery is non flammable, non-explosive and 99% recyclable, making it a very safe and sustainable solution.

The typical owner of a solar system uses only approximately 30% of the solar energy - the rest is sold back to the grid, usually for a small settlement price. Our smaller battery solution enables the owner to utilise up to 75%, which makes solar energy a significantly better investment. And with a sufficiently large battery, the owner can strictly utilise all of the stored energy.

Green investments can provide green figures on the bottom line and can thus generate cash savings.



Sustainable



Long lifetime - 20+ years



Safe - cannot burn or explode



Scalable



visblue
energy in the flow

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TECHNICAL SPECIFICATIONS

FOR LARGER SYSTEMS MULTIPLE MODULES
CAN BE ASSEMBLED

POWER AND CAPACITY

POWER [kW]	10
CAPACITY [kWh]	SCALABLE UP TO 100
PEAK CHARGE/DISCHARGE POWER	1.1 X NOMINAL POWER 5. MIN. ON/OFF
DC EFFICIENCY (STACK) [%]	87 DC ROUNDTrip INCLUDES BOTH CHARGE/DISCHARGE EFFICIENCY <i>Depending on load profile</i>
AC EFFICIENCY (SYSTEM) @ NOMINAL POWER [%]	67 AC ROUNDTrip INCLUDES BOTH CHARGE/DISCHARGE EFFICIENCY <i>Depending on load profile</i>
DC VOLTAGE [V]	40 TO 60
AC VOLTAGE [VAC]	1 X 230 3 X 400 50Hz
GRID CONNECTION [PHASE(S)]	1 3
DEPTH OF CHARGE/DISCHARGE [%]	3 TO 80
RESPONSE TIME [MS]	<20
SELF-DISCHARGE	<0.3% OF FULL CAPACITY PER DAY (PUMPS STOPPED) <100Wh PER DAY FOR 33kWh SYSTEMS

REMOTE ACCESS

COMMUNICATION	REMOTE ACCESS THROUGH LAN MODBUS TCP (ADDRESS LIST UPON REQUEST)
BATTERY CONTROL	CHARGE/DISCHARGE IS CONTROLLED BY INPUT FROM ENERGY METER CHARGE/DISCHARGE IS CONTROLLED BY INPUT FROM EXTERNAL MASTER

REMOTE MONITORING

CLOUD ACCESS	DATA ACCESSIBLE FROM CLOUD
WEBPAGE	VISUALISATION OF FRONT-END DATA VISUALISATION OF BACK-END DATA

SIZE AND MASS

BATTERY SIZE [kW/kWh]	10/40 10/50
TANK SIZE [L]	1000 1250
FOOTPRINT [mm] (W x D)	2081 x 1240
HEIGHT [mm]	1800 2100
WEIGHT TANKS/RACK [kg]	2800/450 3300/450
DESIGN LIFE [CYCLES/YEAR]	20,000/20

ENVIRONMENT

ELECTROLYTE TEMPERATURE [°C]	0 TO +35
HUMIDITY	95% RH NON-CONDENSING
VENTILATION	SITE-DEPENDENT COOLING/HEATING CAN BE INSTALLED
SAFETY	NON-FLAMMABLE AND NON-EXPLOSIVE WATER-BASED ELECTROLYTE