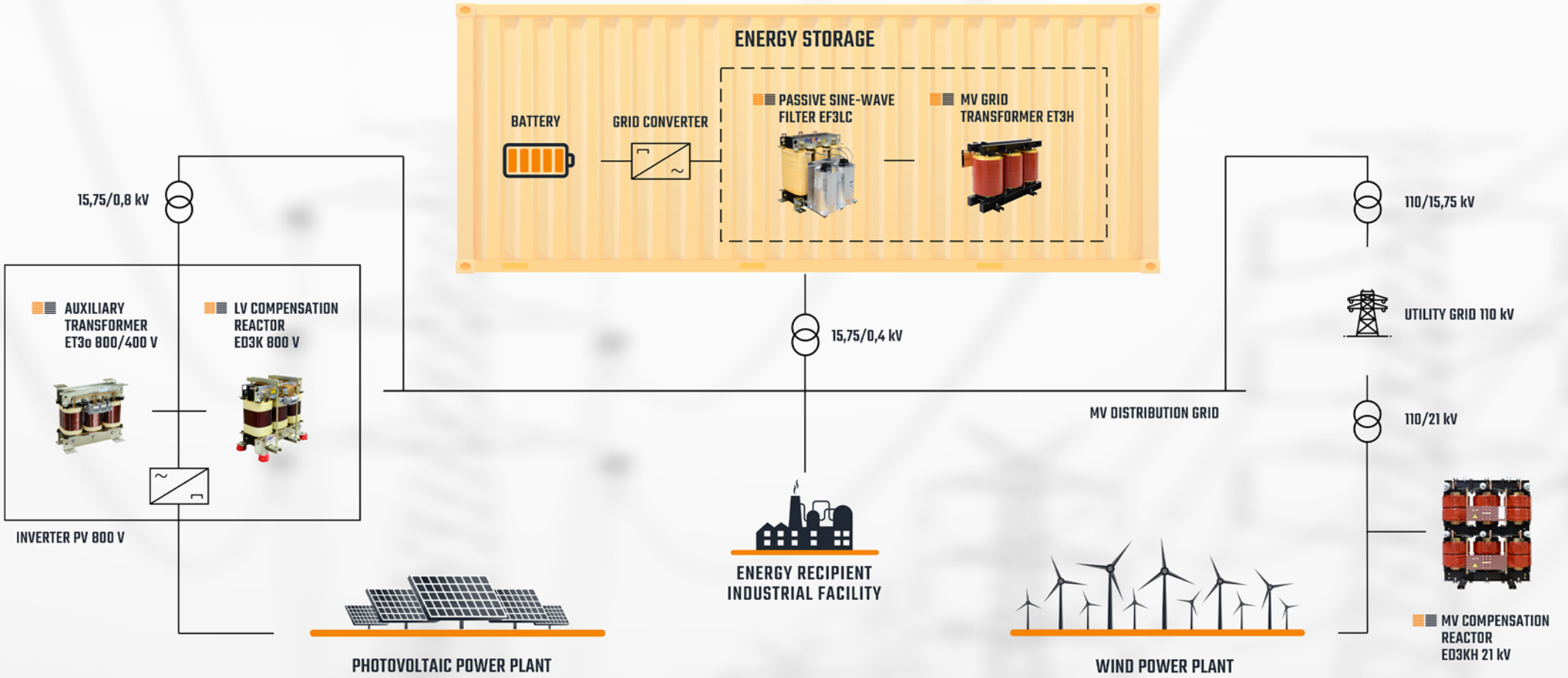


ELHAND Components for Renewable Energy Sources

elhand TRANSFORMATORY

ELHAND Transformatory is one of the leading manufacturers of inductive components for industries related to renewable energy, the marine sector, AC drives, railways, oil and gas, mining, and power electronics. Our product portfolio includes low- and medium-voltage transformers, reactors, and filters designed to operate in the most demanding applications.

45+ Years of Experience

ELHAND TRANSFORMATORY Sp. z o.o., 42-700 Lubliniec, ul. Klonowa 60, POLAND, +48 (34) 347 31 00, www.elhand.com, info@elhand.com

PASSIVE SINE-WAVE FILTER

EF3LC

The EF3LC filter converts PWM voltage to sinusoidal waves, mitigating the negative impact on electric motor lifespan. Applied on inverter output, it protects against voltage peaks, bearing currents, overheating and cable ringing, ensuring motor longevity. Its compact design allows easy integration into existing systems, ready for immediate use after installation.

- Power: up to 2000 kW
- Voltage: up to 690 V

LV COMPENSATION REACTOR

ED3K

ED3K compensation reactors counter increased capacitive power consumption in systems with LED lights, UPS, and impulse power supplies. They maintain grid stability by reducing capacitive power, avoiding extra fees, minimizing power losses, and enhancing system reliability.

- Power: up to 1 000 kvar
- Voltage: up to 1 100 V

MV GRID TRANSFORMER

ET3H

Transformers dedicated to connection of energy storage system to grid shall be designed in accordance with standards of grid operators and manufacturers of frequency converters. Elhand allows customers to choose impedance, voltage ratio and power of a transformer exactly to the needs of the system. Customized electrical parameters and the best winding techniques creates unique product for efficient power transfer from the battery to the grid and vice versa.

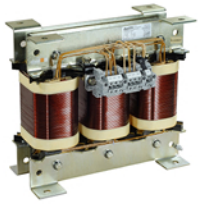
- Power: up to 2 500 kVA
- Voltage: up to 21 000 V

MV COMPENSATION REACTOR

ED3KH

Broad cable grids in wind farms face increased capacitive power consumption, leading to extra fees, additional losses, and grid instability. ED3KH compensation reactors maintain grid inductance, reduce capacitive power and ensure operation within the proper Q/P coefficient range.

- Power: up to 1 200 kvar
- Voltage: up to 21 000 V



AUXILIARY TRANSFORMER

ET3O

The Elhand auxiliary transformer is vital in LV switchgear, powering control, measuring, light, IT, and CCTV devices. Renowned for reliability, it features dry-type windings with VPI impregnation for optimal electrical strength and environmental resistance. The ET3o transformer core uses high-efficiency electrical steel from leading European manufacturers.

- Power: up to 2 000 kW
- Voltage: up to 1 100 V

SMOOTHING REACTOR

ED1WH

DC chokes are used to smooth the pulsations of current flowing through a battery pack. By introducing inductance into the circuit, the amplitude of current ripples is reduced, resulting in lower heating of the battery cells. The use of chokes significantly extends the overall system's lifespan.

- Power: up to 2 500 A
- Voltage: up to 1 500 V DC

ELHAND Components for Renewable Energy Sources

elhand TRANSFORMATORY

Lower Your Operational Expense by Using Newest Magnetic Technologies and Modern Designs.

- Cost optimization.
- Hight quality at a reasonable price.
- Highly customized, non-standard solutions.
- Full service: design, manufacture, transport.
- Less carbon footprint.
- Made in Europe.

45+ Years of Experience

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