

Are you looking for a compact solution  
that will shorten the startup time of your installation?

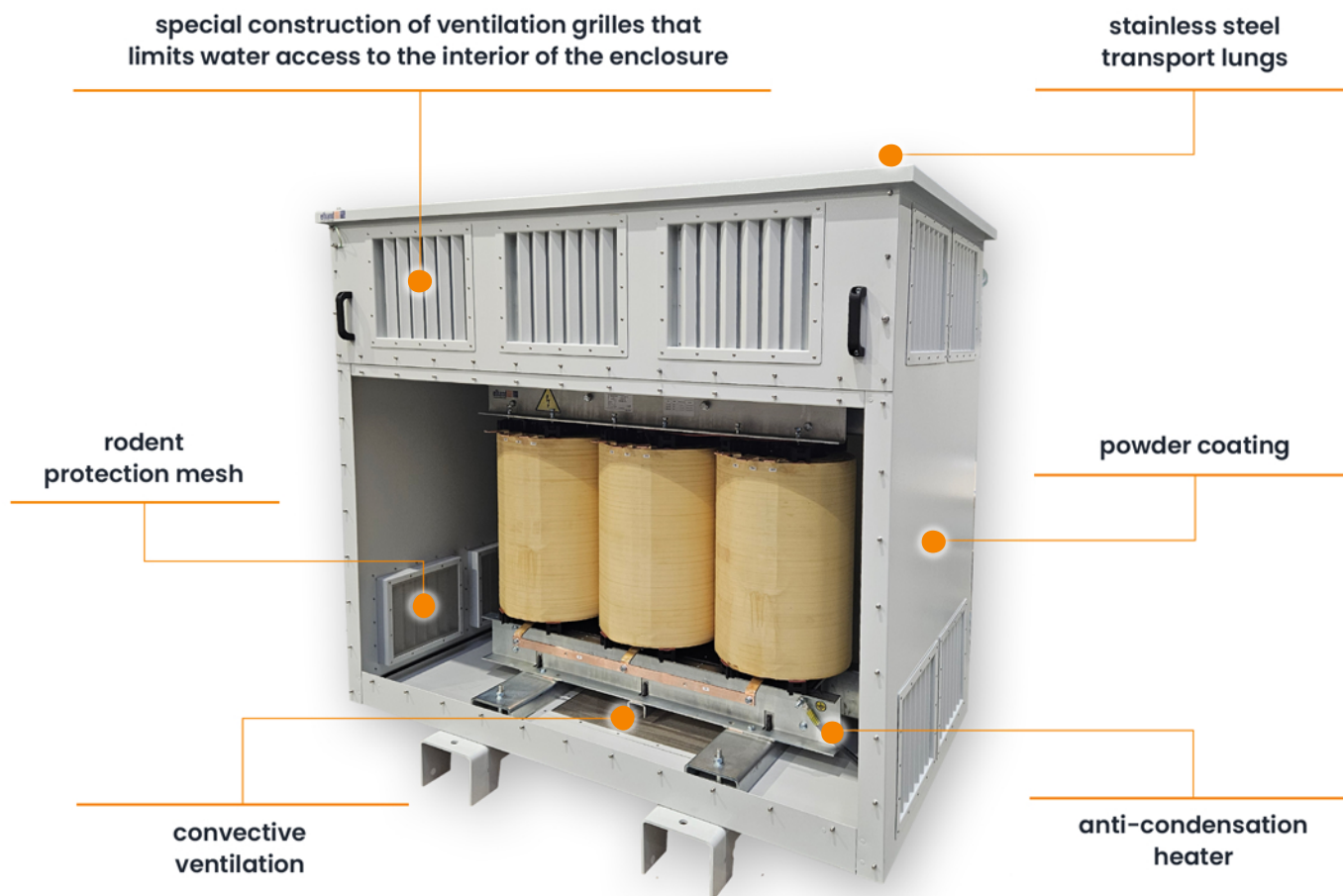


# ELHAND IP34 Enclosure

A construction designed from scratch for field applications  
– where standard enclosures fail.



# IP34 Enclosure for outside applications



## Efficiency and safety confirmed through testing

Elhand IP34 enclosures were designed by Elhand engineers with a focus on ensuring **stable and reliable operation of transformers and reactors**. Thanks to **natural air circulation**, they provide optimal cooling without the need for fans, resulting in **lower failure rates and extended equipment lifespan**.

-  **Efficient heat dissipation** – confirmed through heating tests.
-  **Installation in a few steps** – simple implementation in any setup.
-  **Safe transport by crane** – built-in transport handles, no need to remove the roof.
-  **Easy maintenance and servicing** – removable components facilitate access to the interior.

IP34 Enclosure for outside applications

from design to solution



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## We connect efficient ventilation with protection against weather conditions

Elhand IP34 enclosures provide reliable protection for transformers and reactors operating outdoors. The advanced ELHAND design **effectively shields against snow, rain, and mechanical damage**, extending the lifespan of the equipment and minimizing the risk of failures.

### Why do designers and constructors choose IP34 enclosures?

- +** **Full protection** – resistance to weather conditions, including splashes and mechanical damage.
- +** **Lower maintenance cost** – no mechanical ventilation and extended equipment lifespan.
- +** **Climate class C4** – operation in temperatures down to -40°C, certified according to PN-EN 60076.
- +** **Optional anti-corrosion protection** – transformer or reactor manufactured in environmental class E4, according to PN-EN 60076-1.
- +** **Anti-condensation heater** – offered as standard equipment.
- +** **Individual match** – we also design enclosures with non-standard dimensions.

### ELHAND IP34 enclosures

The ideal solution for the following sectors:



Wind farms  
and PV farms

Automation



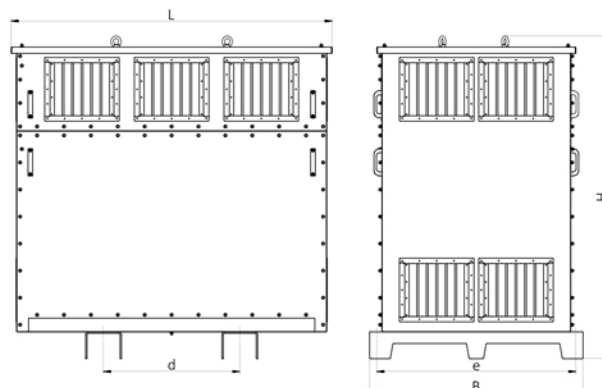
Energy  
storage



Industry

### Example enclosure dimensions

No	Type	L	B	H	Weight
		[mm]	[mm]	[mm]	[kg]
1	BG34-E840 ZEW	1360	1100	1408	165
2	BG34-E1080 ZEW	1560	1190	1438	210
3	BG34-E1170 ZEW	1790	1190	1813	254
4	BG34-E1350 ZEW	1960	1340	2153	324
5	BG34-E1450 ZEW	2050	1340	2233	342



\*For each project it is possible to make an enclosure with different dimensions.

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# ELHAND IP34 outside enclosure

– a key to reliable work of PV farm



## Key features of the ELHAND IP34 outside enclosure appreciated by the customer:

**Water resistance** – special ventilation grilles limit water access.

**Rodent and dirt protection** – insect and dust mesh with IP3X protection.

**Condensation protection** – built-in anti-condensation heater.

**Easy transport and installation** – mounted lifting lugs, no need to dismantle the roof.

## Challenge

The customer specialising in the construction of photovoltaic farms needed a **solution that would protect key components of the electricity system.**

Compensation reactors operate in the open ground where they are exposed to **moisture, dust and extreme weather conditions.** Without a suitable enclosure, the risk of failure and financial loss would be high.

## Solution

We placed the chokes in a **modern ELHAND IP34 enclosure**, designed specially to work in harsh conditions.

## Results

- +** Reactors work faultlessly under demanding conditions.
- +** Voltage stabilisation and improved power quality.
- +** Reduce reactive power charges and increase the efficiency of the PV farm.

*"The ELHAND IP34 enclosure is a robust protective shield for our equipment. It ensures that the reactors operate stably without risk of failure – even in harsh weather conditions."* – Designer RES Industry.

Contact us! We'll design the perfect enclosure for your project!



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