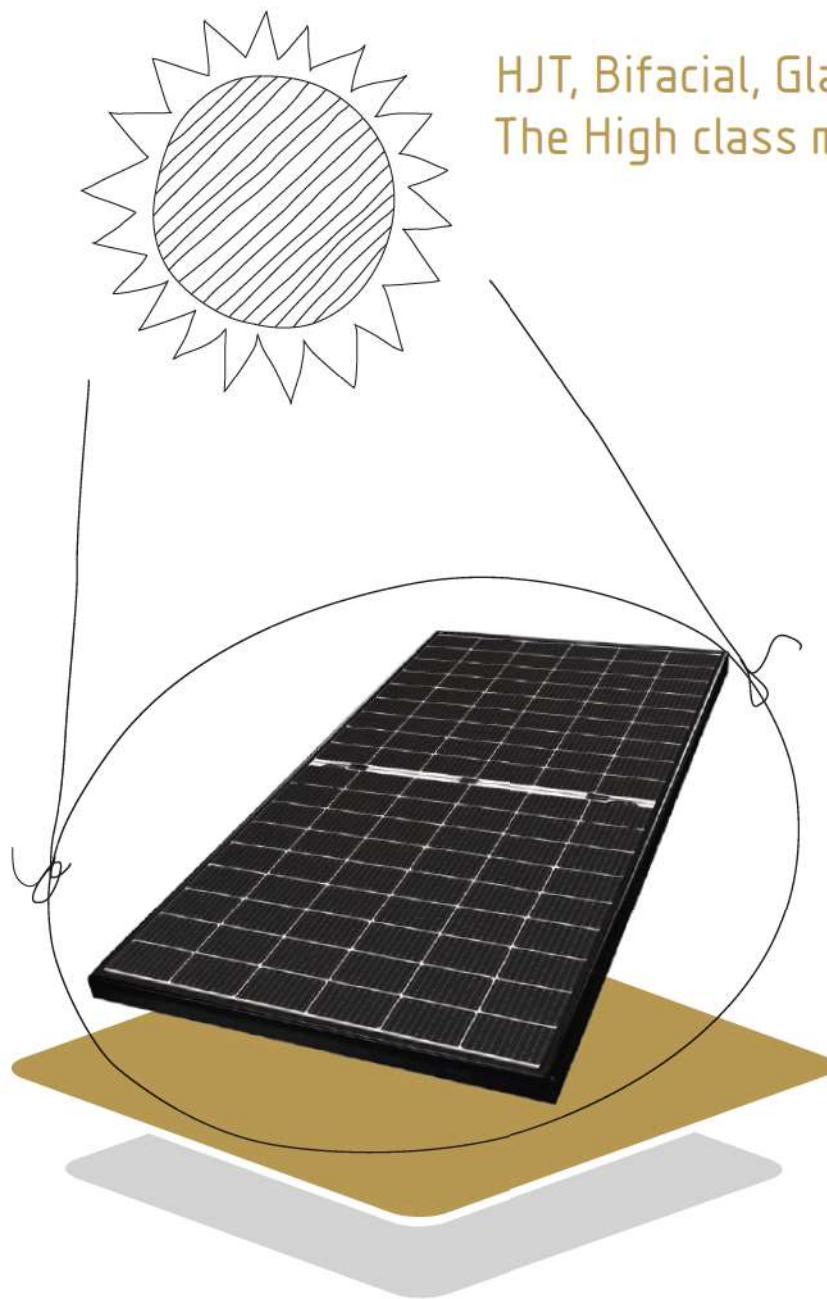


ECO LINE
HETEROJUNCTION
SOLAR MODULES

HJT, Bifacial, Glass-Glass
The High class module family



HETEROJUNCTION TECHNOLOGY



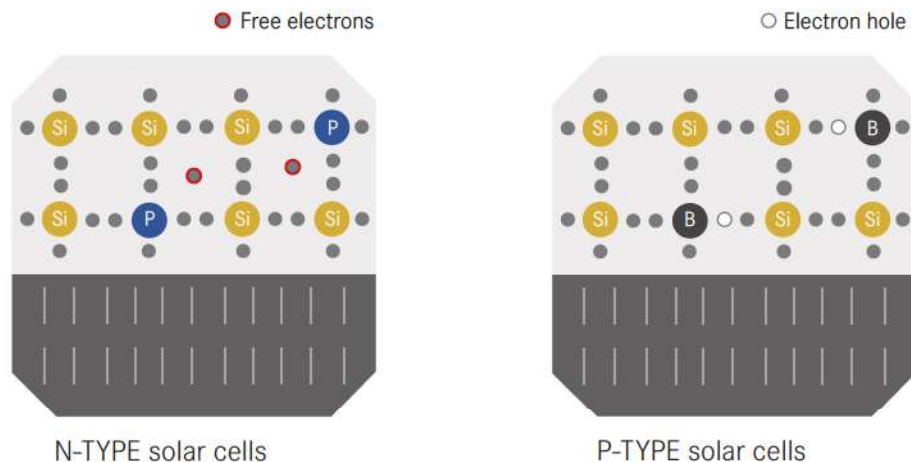
Luxor Solar has expanded its portfolio with heterojunction cell technology, a superior high class solar module.

The heterojunction technology impresses with several advantages compared to current cell technologies. HJT is more efficient, more durable and guarantees more yield per area, in addition to more yield throughout the lifetime of the modules.

Heterojunction technology is based on an N-doped crystalline silicon wafer, which is coated with very thin amorphous crystalline layers.

This cell structure is responsible for the efficiency advantage over conventional cell technologies.

HETEROJUNCTION CELL CONSTRUCTION



Photovoltaic cells differ in their layer structure in negatively charged N-type cells and positively charged P-type cells.

If the base-layer is doped with boron, it is a P-type cell. This has one electron less than silicon. This creates an electron hole and the positive charge carriers predominate. With N-type cells, the base layer is doped with phosphorus. This has one more electron than silicon, which creates free electrons.

These free electrons enable the higher efficiency of the N-type cells.

They are responsible for the extremely low power losses and prevent phenomena such as PID and LID.

- + No PID ⁽¹⁾
- + No LID ⁽²⁾
- + High efficiency

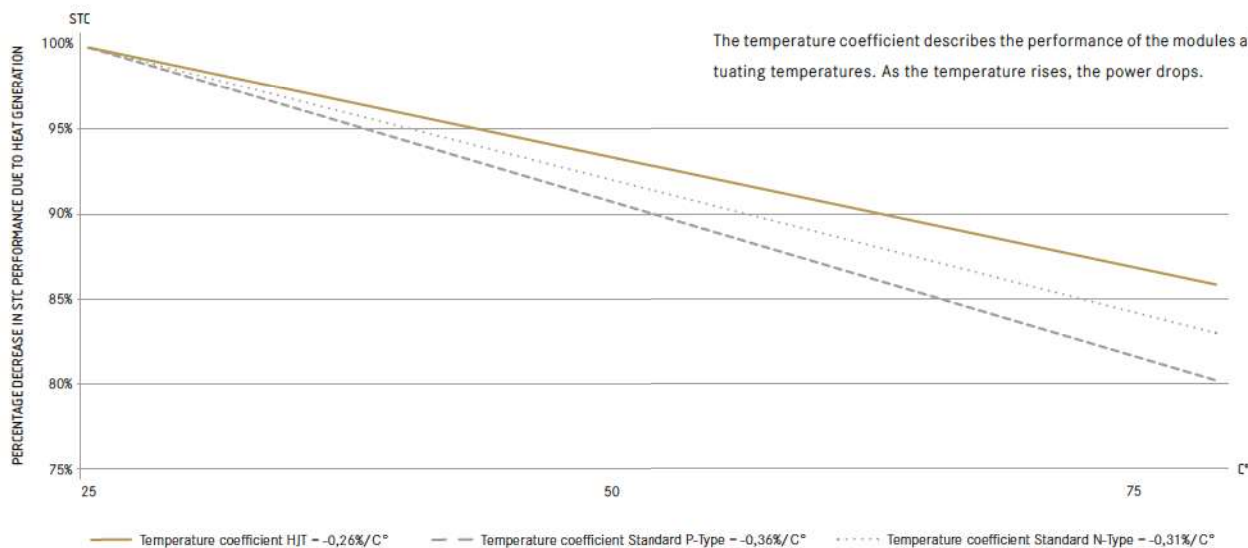
(1) Potential-Induced degradation | (2) Light-Induced Degradation

HIGHER EFFICIENCY

BETTER TEMPERATURE BEHAVIOR

Heterojunction cells combines the advantages of two technologies. The crystalline N-Type based cell-core allows more direct sunlight to be converted into electricity.

The amorphous cell layers also ensure better weak light behavior and significantly higher resistance to high temperatures.

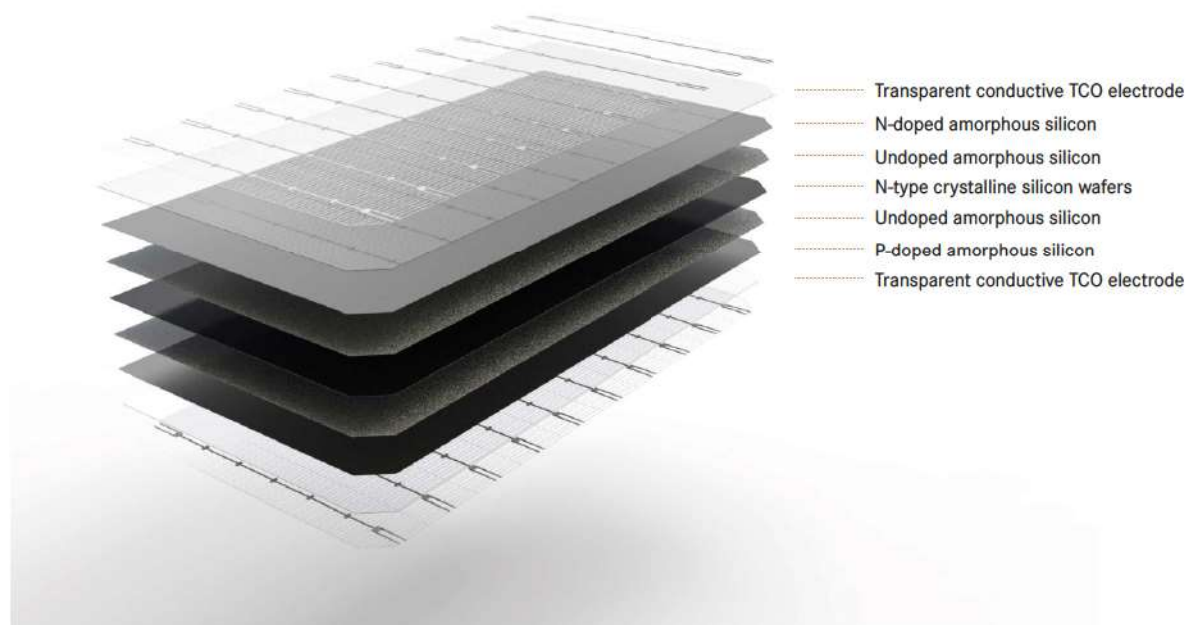


The temperature coefficient describes the performance of the modules at fluctuating temperatures. As the temperature rises, the power drops.

HIGHER BIFACIALITY = HIGHER RETURNS

Heterojunction cell achieves optimal bifaciality thanks to its symmetrical structure. Indirect light is absorbed by the solar cell on both sides.

The bifaciality factor of heterojunction solar modules is up to 95%.⁽³⁾



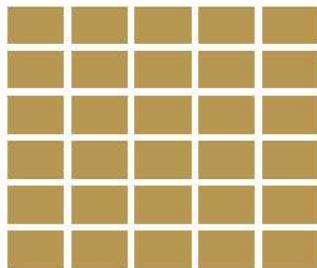
PERFORMANCE & GUARANTEES

REDUCTION OF BOS COSTS

By using Luxor Solar heterojunction solar modules, you can efficiently reduce your BOS costs. Compared to conventional solar modules, HJT modules generate + 3 percent more power and a further

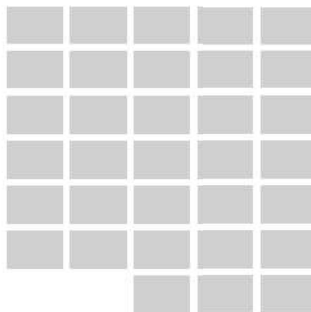
+ 8 percent more yield over a period of 30 years on the same large area.

Heterojunction-module's area

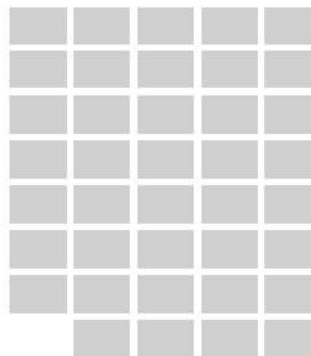


- + 3% additional yield vs standard module
- + 8% additional yield over 30 years
- + Less space required
- + Reduced installation effort

Area required with standard modules for the same performance compared to HJT modules.



Area requirement with standard modules for the same performance compared to HJT modules over a period of 30 years.



SECURITY, YIELD & GUARANTEES

The advantages of the Luxor ECO Line HJT GG BIF series are several. They are high class solar modules with an extra class for safety and environmentally conscious customers, which appreciate outstanding quality.

- + Higher yield
- + Reduction of BOS costs
- + Maximum longevity
- + Combination of the latest technologies
- + Long guarantees, high security
- + Withstands extreme environmental conditions.



Luxor, your specialised company

For more information about this product in Thailand please contact



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