

MORE OPTIONS

MORE DESIGNS

MORE FLEXIBILITY

ECO LINE
N-TYPE TOPCON
SOLAR MODULES



MORE OPTIONS MORE DESIGNS MORE FLEXIBILITY



Luxor Solar expands its portfolio with the N-Type TOPCon technology with even more high-performance solar modules.

In addition to higher efficiency, high durability, and higher yield per area and per runtime, the ECO LINE N-TYPE TOPCON solar modules impresses with their enormous flexibility.

ECO LINE N-TYPE TOPCON

THE RIGHT MODULE FOR EVERY APPLICATION

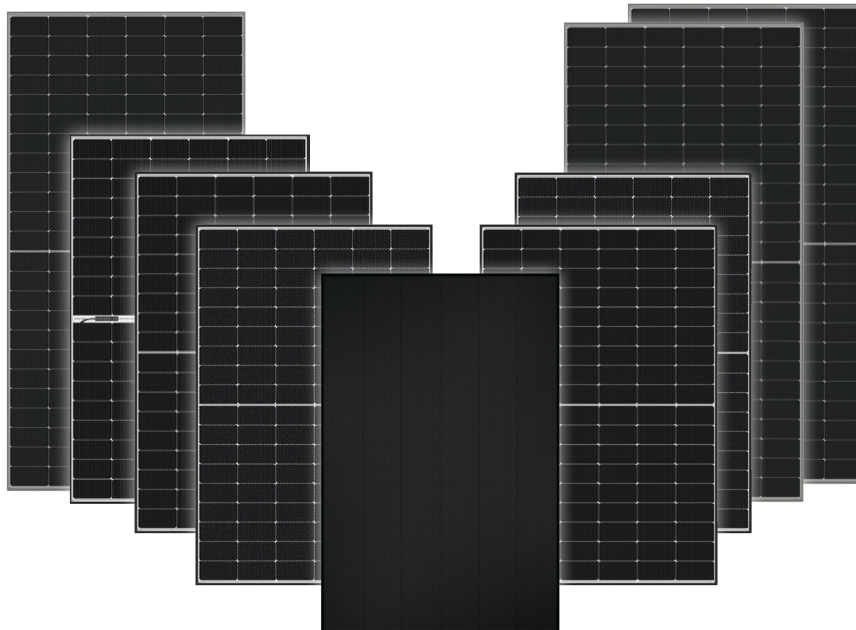
The ECO LINE N-TYPE TOPCON GLASS-GLASS series offers maximum durability and safety. All solar modules in this series are equipped with bifacial cells and come with a proven 30-year performance and product guarantee.

The ECO LINE N-TYPE TOPCON series is designed for economical systems and projects. In addition to the higher cell efficiency, these solar modules impress with a variety of different models.

ECO LINE N-TYPE TOPCON GLAS-GLAS

- + M144 WHITE MESH
- + M108 TRANSPARENT
- + M108 WHITE MESH
- + M108 NON REFLECT
- + M108 FULL BLACK

All modules from the GG series are equipped with bifacial cells.



ECO LINE N-TYPE TOPCON

- + M144 MONOFACIAL
- + M144 BIFACIAL
- + M108 NON REFLECT
- + M108 BIFACIAL
- + M108 FULL BLACK

Modules of this series are optionally available with bifacial or mono-facial cells.

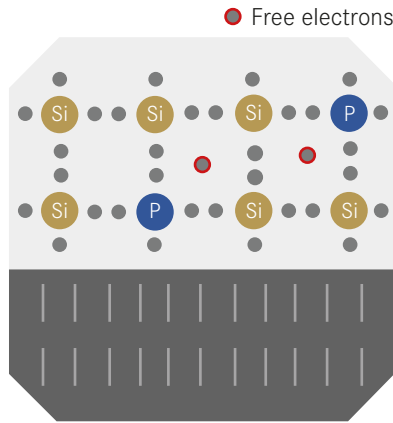
All ECO LINE N-TYPE TOPCON solar modules, of both designs, are optionally available with pre-assembled SMART optimizer.

N-TYPE TOPCON

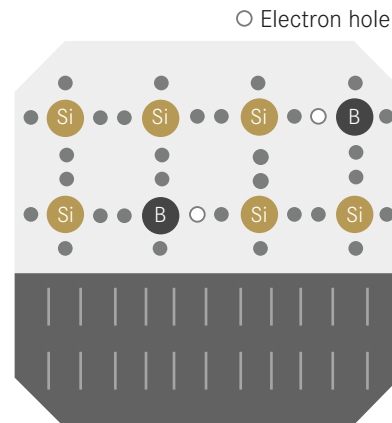
TECHNOLOGY - CELL CONSTRUCTION

The N-Type TOPCon technology is based on an n-doped crystalline silicon wafer.

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



N-Type solar cells



P-Type solar cells

Photovoltaic cells differ in their layer structure into negatively charged N-Type cells and positively charged P-Type cells. In N-Type cells, the base layer is doped with phosphorus. This has one electron more than silicon, which generates free electrons.

These free electrons enable the higher efficiency of N-Type cells. They are responsible for the low power losses and prevent PID and LID phenomena.

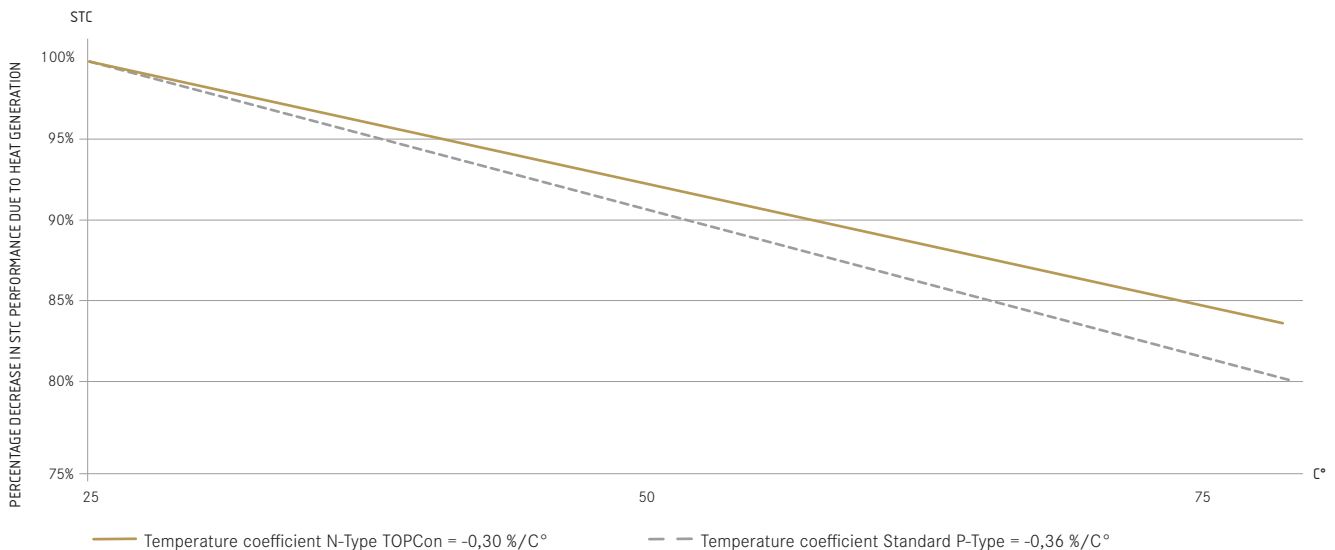
- + No PID Potential-induced degradation
- + No LID Light-Induced Degradation
- + High efficiency

HIGHER EFFICIENCY

BETTER TEMPERATUR BEHAVIOUR

The N-Type TOPCon cell has a better temperature behaviour compared to conventional cells. The temperature coefficient describes the performance of the

modules at fluctuating temperatures. The power output decreases as the temperature rises.



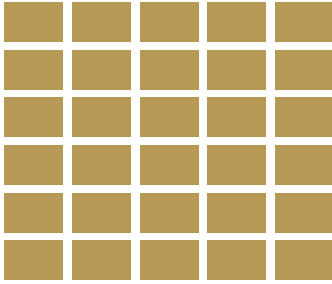
PERFORMANCE & GUARANTEES

REDUCTION OF BOS COSTS

By using ECO LINE N-TYPE TOPCON GLASS-GLASS modules, you can efficiently reduce your BOS costs. Compared to conventional solar modules, these modules generate up to + 3 percent more power on

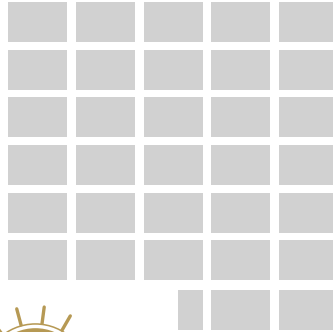
the same area and + 4 percent more power over a 30-year period.

N-TYPE TOPCon-module's area

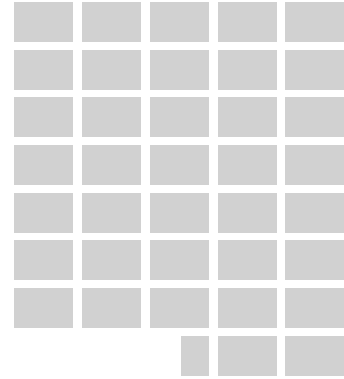


- + 3 % additional yield vs standard module
- + 4 % additional yield over 30 years
- + Less space required
- + Reduced installation effort

Area required with standard modules for the same performance compared to N-TYPE TOPCon modules.



Area requirement with standard modules for the same performance compared to N-TYPE TOPCon modules over a period of 30 years.



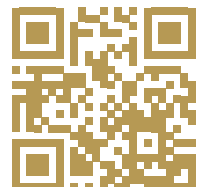
YIELD, SECURITY & GUARANTEES*

Example calculation based on a 108-cell module of different series according to the respective warranty services.

*Exact guarantee performance of the different ECO LINE N-TYPE TOPCON modules can be found on the respective solar module data sheet.

ECO LINE M108 Design	Linear performance guarantee	1 Year	10 Years	20 Years	25 Years	30 Years
N-TYPE TOPCON GLASS-GLASS 420 Wp	> 89 % after 30 Years	415	402	395	388	381
P-TYPE GLASS-GLASS 420 Wp	> 87.5 % after 30 Years	409	396	389	381	374
N-TYPE TOPCON 420 Wp	> 87.5 % after 25 Years	415	397	387	377	-
P-TYPE 420 Wp	> 85.5 % after 30 Years	409	390	380	369	-

☐ ECO LINE N-TYPE TOPCON GLASS-GLASS ☐ ECO LINE P-TYPE GLASS-GLASS ☐ ECO LINE N-TYPE TOPCON ☐ ECO LINE P-TYPE



Luxor, your specialised company



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