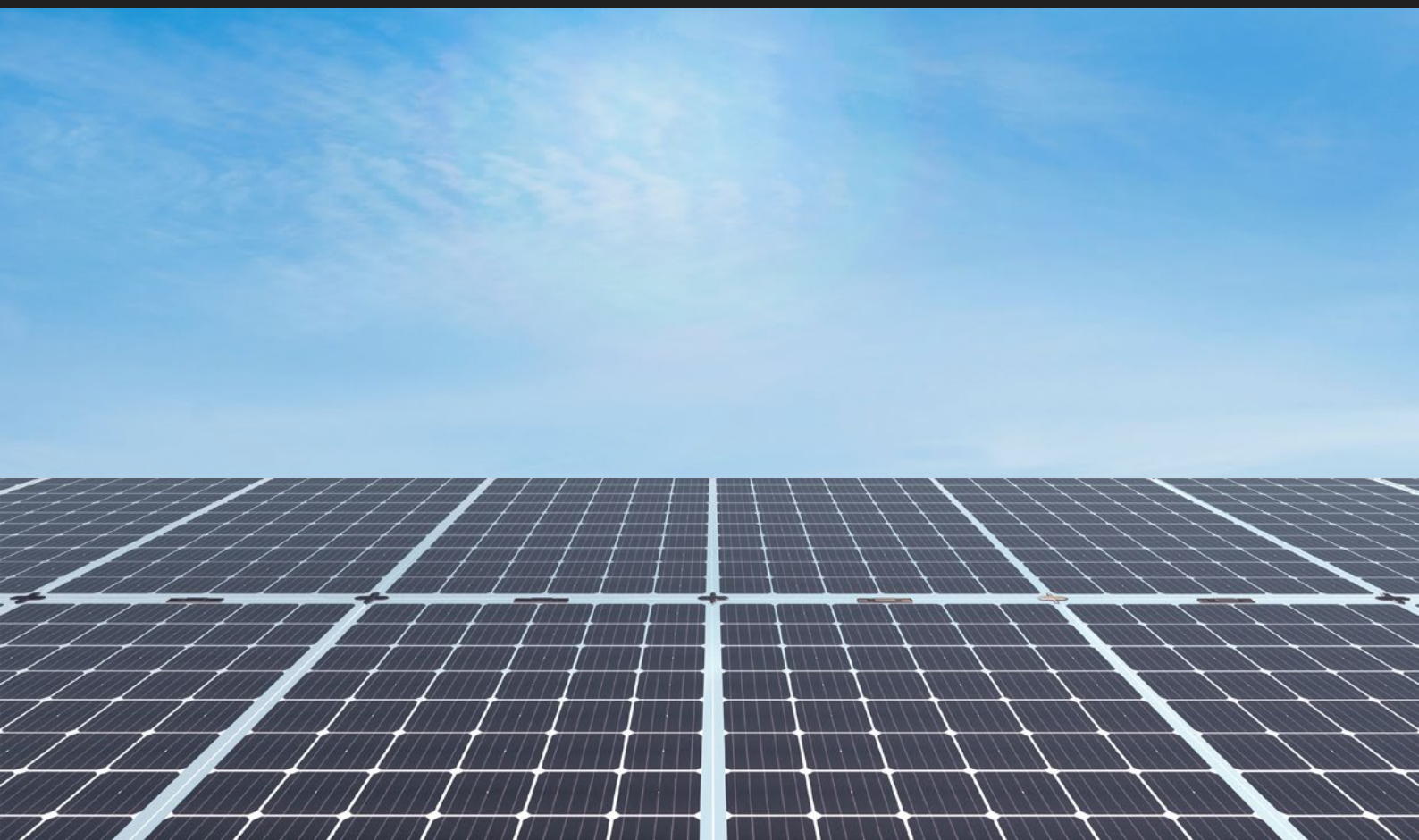




**TORENSE INDUSTRY HJT**  
**HETEROJUNCTION BIFACIAL 60-CELL MODULE**  
310W – 450W














# TORENSE INDUSTRY HJT

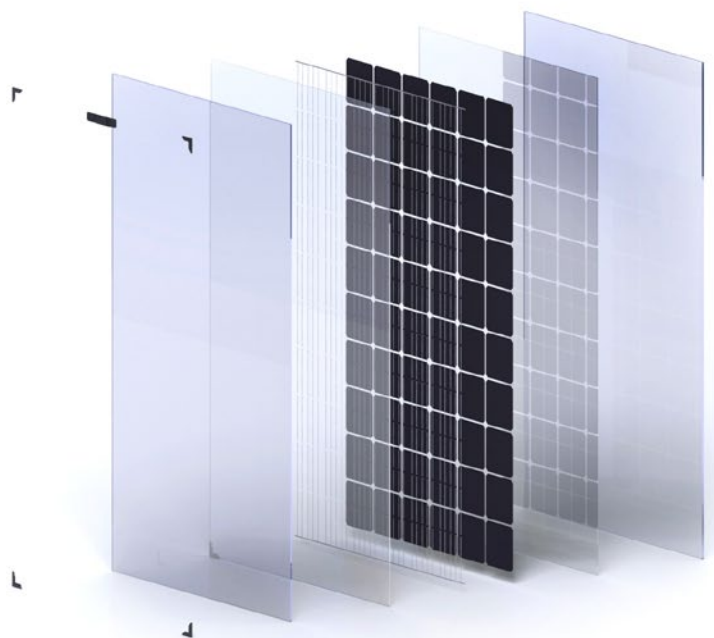
## HETEROJUNCTION BIFACIAL 60-CELL MODULE

310W – 450W\*

By combining the advantages of thin-film crystalline silicon cells, HJT technology allows Torens to produce highly efficient solar cells at lower manufacturing costs. Our R&D department allows us to increase efficiency by **0.75%** annually, thanks to high yield and excellent passivation characteristics of amorphous silicon.

### Advanced Heterojunction Technology

-  Superior temperature coefficient (**-0.25%/K**) compared to mainstream cells >>> **higher energy yield**
-  Performance warranty up to **30 years**
-  Lowest degradation
-  Lowest LCoE
-  Ideal for bifacial modules
-  Low Tc of HJT modules leads to **5%** increase in power output during the operation of the modules under optimal conditions (summer cloudless day)
-  Excellent passivation by high purity intrinsic a-Si layers >>> **high Voc**
-  Highest efficiency potential
-  Most efficient for applications with relatively high temperatures
-  Most compact process flow
-  Output increase by applications at low latitude at increased average temperature is highly efficient and produces more power per square meter than usual high efficiency cells (**two times** higher efficiency than a typical mono cell).



#### Electrical Characteristics

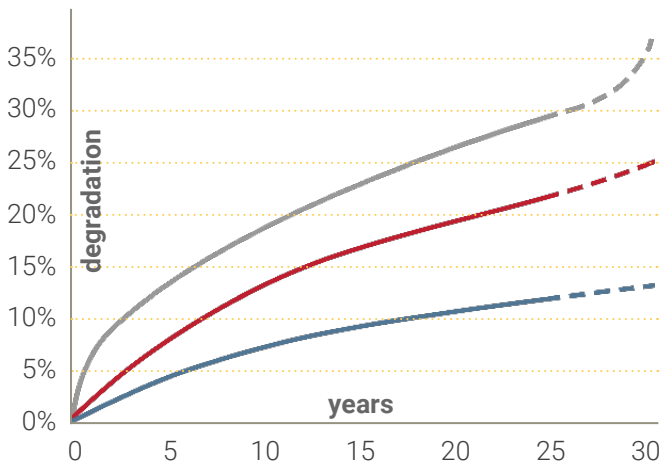
Module Power	349.30W
Module Efficiency	21.00%
Total Cell Power	365.3W
Cell Efficiency	24.98%
Cell to Module Loss	4.38%
Albedo	25%
TC	-0.25%/K
Back sheet	no

\* The lowest possible power with bifacial usage

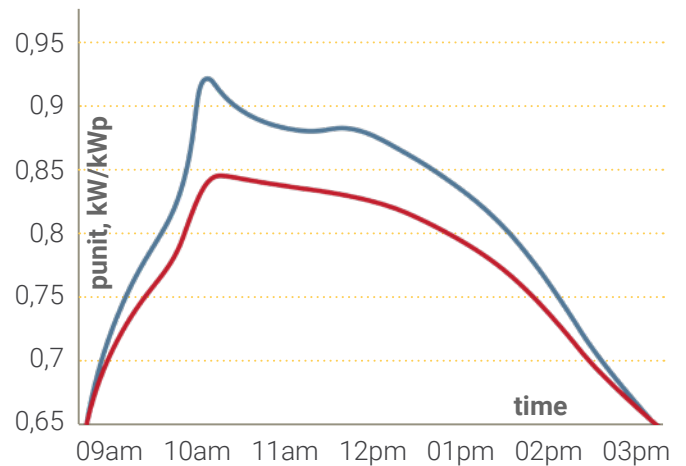
\*\* Bifacial Gain: An energy gain of 25% can be achieved from the back side compared to the front side at the standard test conditions, depending on the installation conditions.

# Performance Characteristics

### Degradation Ratio

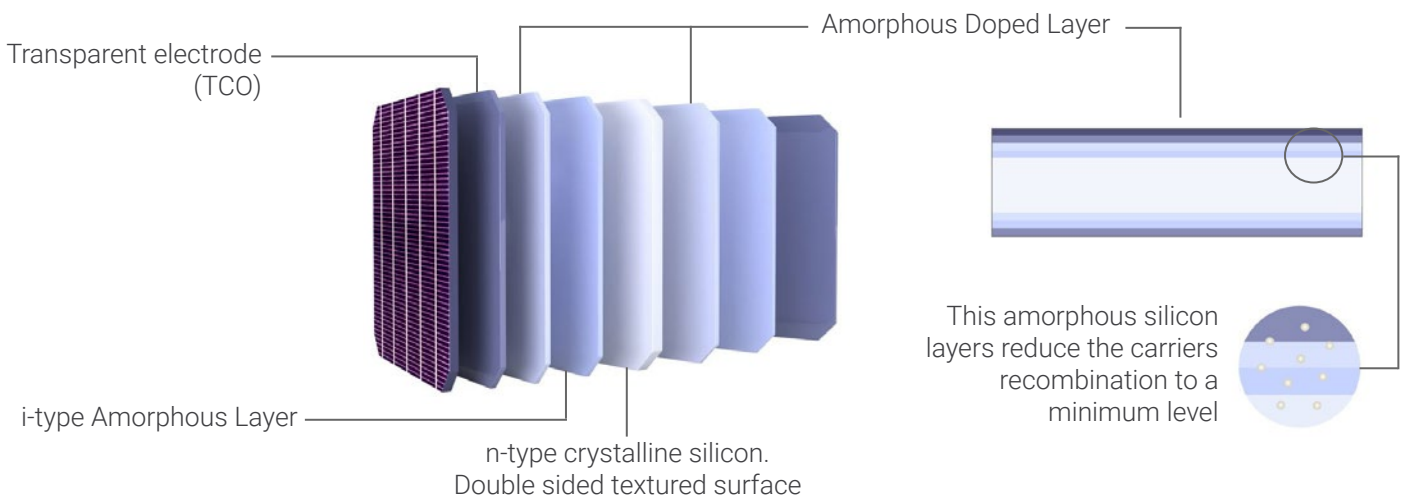


### Daily Performance



— HJT      — Multicrystalline      — Thin-film

# HJT Cell Structure



# Mechanical Data

**Dimensions:** 1664mm x 966mm

**Weight:** 27 kg



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