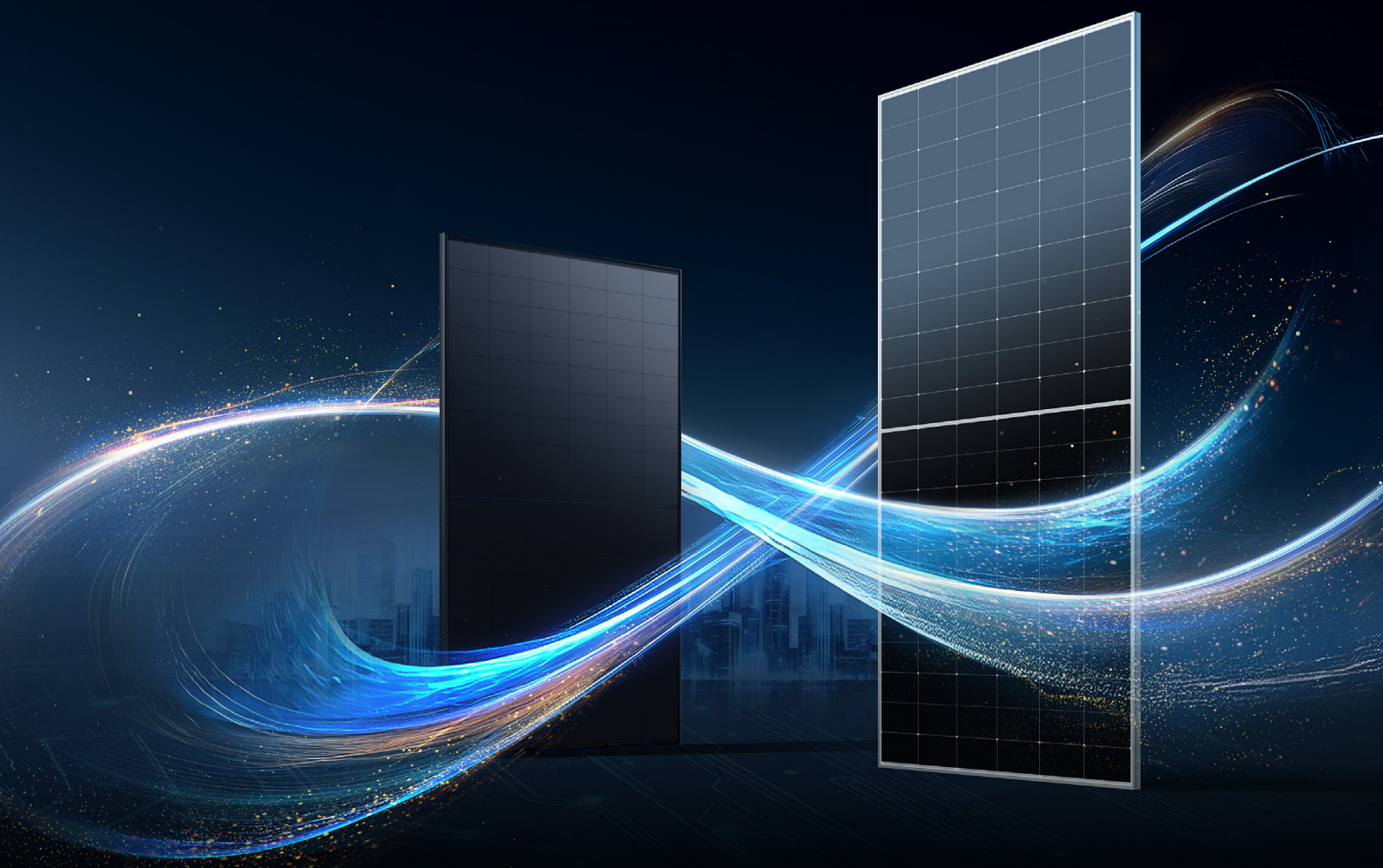
LONGi

Hi-MO X10

The Pinnacle of Crystalline Silicon

Exceptional Value, Limitless Potential

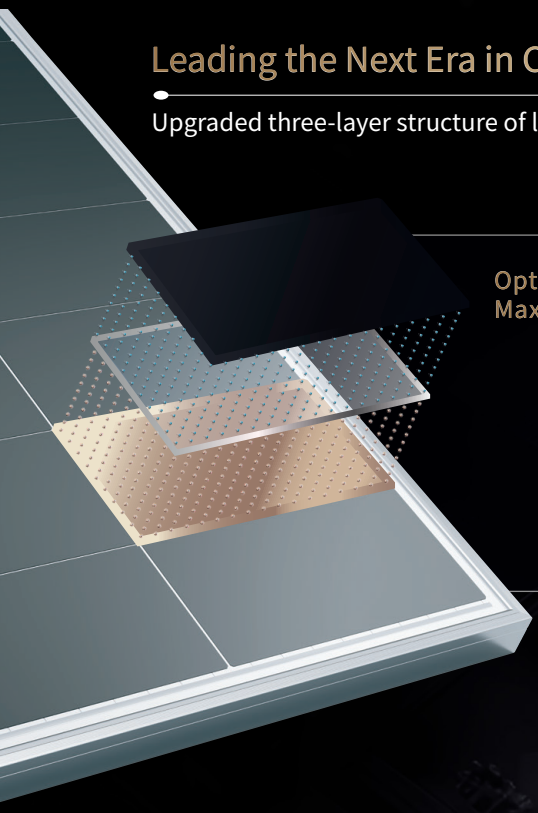


Innovation Without Limits

HPBC 2.0 - Advancing Solar with 3 Breakthrough Technologies

Leading the Next Era in Cell Technology Innovation

Upgraded three-layer structure of light absorption, light-electricity conversion and current transmission



Optimised Multi-layer Anti-reflection Film:
Maximizing light absorption and cell efficiency

Innovative Bipolar Hybrid Passivation:
Reducing current loss

Shading Optimizer Technology:
Protects against shading power loss
and localized overheating

Overcoming the Boundaries of Silicon Substrate Technology

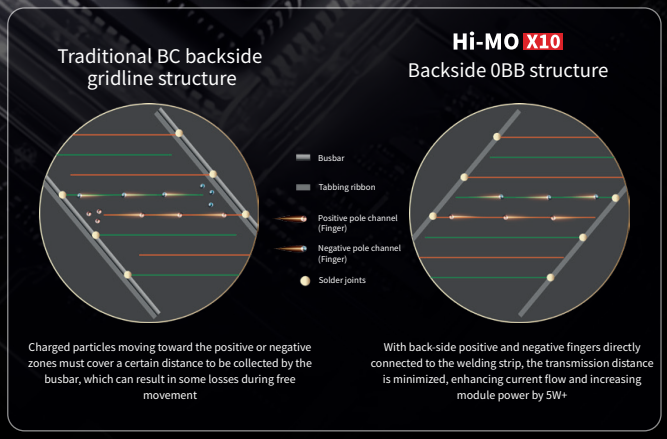
Equipped with TaiRay core wafers
Enhancing power potential with unmatched reliability

Breaktrough in Key Materials and Processes

High-Transparency Insulation Materials and
AI Assisted Manufacturing

Innovative Development Of 0BB Structures

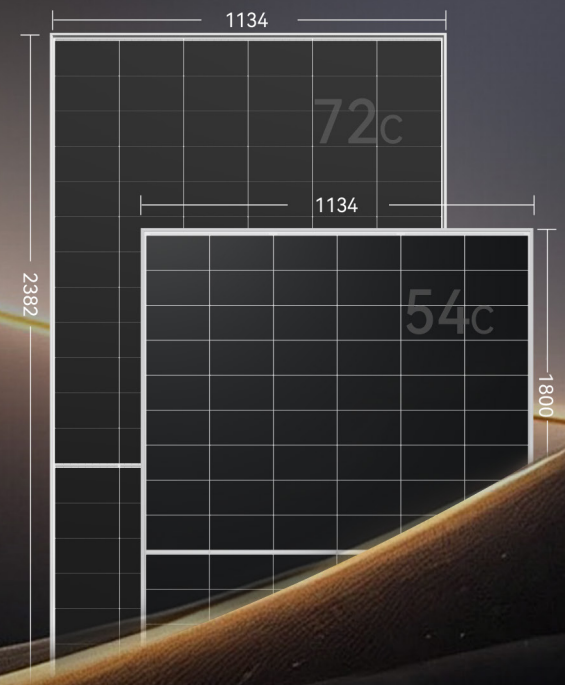
No frontal gridlines, No back busbars



Power Without Limits

Peak Efficiency, Mass Production Power Leading the Industry by 30W

Hi-MO X10



Maximum Efficiency **24.8%**

Maximum Power **670W**

The mass production power leads competitors by 30W

Absolute increase of 1% in module efficiency

Installed capacity up by approx. 5% under same area

Hi-MO X10 **660W**

TOPCon **630W**

Ambition Without Limits

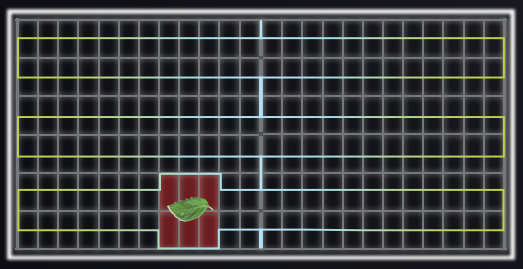
Establishing Core Superiority with Cutting-Edge Innovation

Shading Optimizer Technology

No Fear of Partial Shading | Lower Power Loss

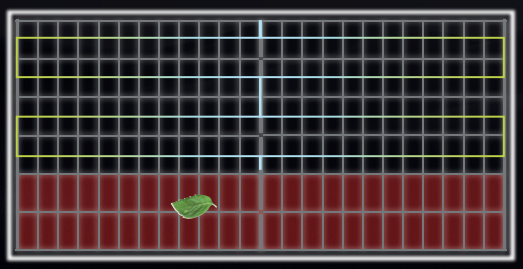
Hi-MO X10

With Self-Bypass, single-cell shading minimizes power loss for the entire string



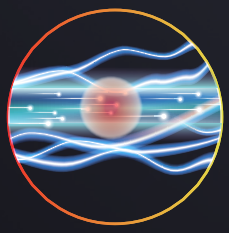
Regular Module

Single-cell shading leads to the hard breakdown of the entire string of cells, causing a greater power loss



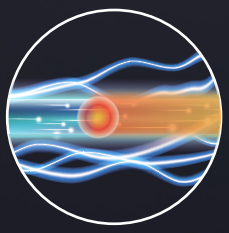
Preventing localized overheating

Reduced Operating Temperature | Failure Risk Drops Sharply



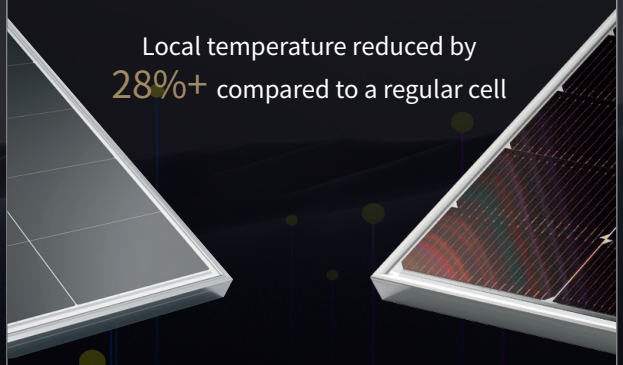
Hi-MO X10

The soft breakdown design significantly lowers local panel temperature



TOPCon

Shading transforms cells into current-consuming loads, increasing localized heat



Local temperature reduced by 28%+ compared to a regular cell

High Efficiency

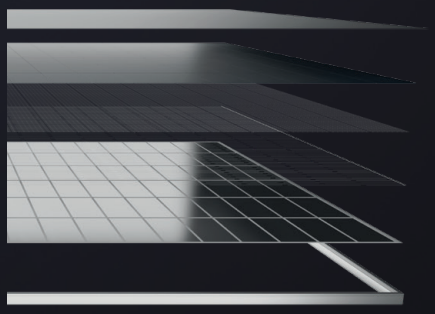
Low Temperature Coefficient

Full-Scenario Aging Suppression

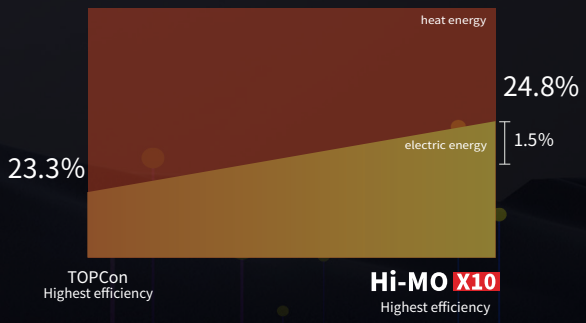
Packaging Built to Resist Aging | Increased Efficiency with Lower Temperatures

High-Reliability Lamination

- High density lamination process
- Pure silver electrode paste
- POE encapsulation film
- Innovative bipolar hybrid passivation



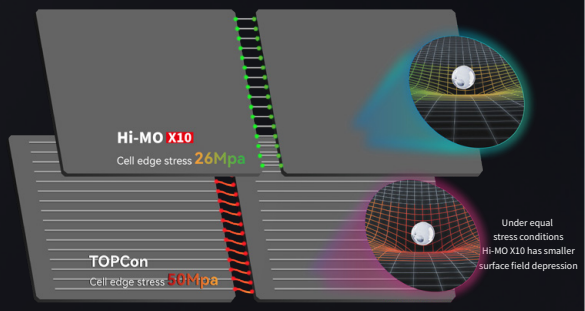
Lower Operating Temperatures



With **1.5%** higher efficiency, Hi-MO X10 delivers **more power**, **less heat**, and **improved aging resistance** over TOPCon under the same conditions

Enhanced Resistance to Mechanical Stress

Thicker TaiRay wafer | One-line Back Contact Welding Structure



TaiRay Core

Ultra-high mechanical strength maximum rupture strength increased by 16%

Thicker Wafer

Wafer thickness is 10μm greater than other mainstream wafers leading to better reliability

Back Side Straight-Line Welding

Reduces cell edge stress and micro-cracking issues

Anti-Shading

Low Failure Rate

Improved Value and Unmatched Potential

8%+ Increase in Power Generation

Powering Change Across Industries and Households

Investment Residential — Higher Returns

Xian, China | Roof area: 260 m² | Roof angle: 25° tilt | Full Grid Connection, Feed-in tariff: $0.05/kWh

- System design: 15 pcs /string, a total of 5 strings, 5 inverters of 8kW

TOPCon		Hi-MO X10	
630	Module rated power (W)	660	
47.25	Project Capacity (kW)	49.50	4.76%
1485.2	Total Power Generation (MWh)	1602.1	7.9%
11.56	IRR (%)	12.57	8.75%
8.19	Payback Period (year)	7.59	7.34%

Long Tail C&I — Higher Returns

Madrid, Spain | Roof area: 10000 m² | Roof angle: Color Steel Tile Roofing 3° | Full Grid Connection, Feed-in tariff: $0.05/kWh

- System design: 20 pcs /string, a total of 154 strings, 11 inverters of 175kW, system voltage 1500V

TOPCon		Hi-MO X10	
630	Module rated power (W)	660	
1940	Project Capacity (kW)	2033	4.76%
83647	Total Power Generation (MWh)	90933	8.7%
9.07%	IRR (%)	9.96%	9.88%
10.06	Payback Period (year)	9.27	7.89%

Residential — Lower LCOE

Madrid, Spain | Roof area: 260 m² | Roof angle: 35° tilt | Self-consumption, Residential electricity price: $0.17/kWh

- System design: 13 pcs/string, a total of 6 strings, 6 inverters of 8kW

TOPCon		Hi-MO X10	
630	Module rated power (W)	660	
49.14	Project Capacity (kW)	51.48	4.76%
2396	Total Power Generation (MWh)	2610	9.0%
0.039	LCOE (yuan/kWh)	0.036	7.16%

Value C&I — Lower LCOE

Xian, China | Roof area: 14000 m² | Roof angle: Color Steel Tile Roofing 3° | Self-consumption, C&I electricity price: $0.11/kWh

- System design: 22 pcs /string, a total of 160 strings, 11 inverters of 175kW, system voltage 1500V

TOPCon		Hi-MO X10	
630	Module rated power (W)	660	
2217.6	Project Capacity (kW)	2323.2	4.76%
66593	Total Power Generation (MWh)	71958	8.1%
29.36	IRR (%)	31.33	6.72%
0.05	LCOE ($/kWh)	0.047	6.9%

Unrivaled Value, Endless Possibilities

New Product for Every Scenario

Performance Leading

Peak efficiency
Resilient to high temperatures
Anti-Shading Technology

Reliability Leading

Heat and hot spot protection
Advanced aging suppression
Enhanced resistance to mechanical stress

Standard Leading

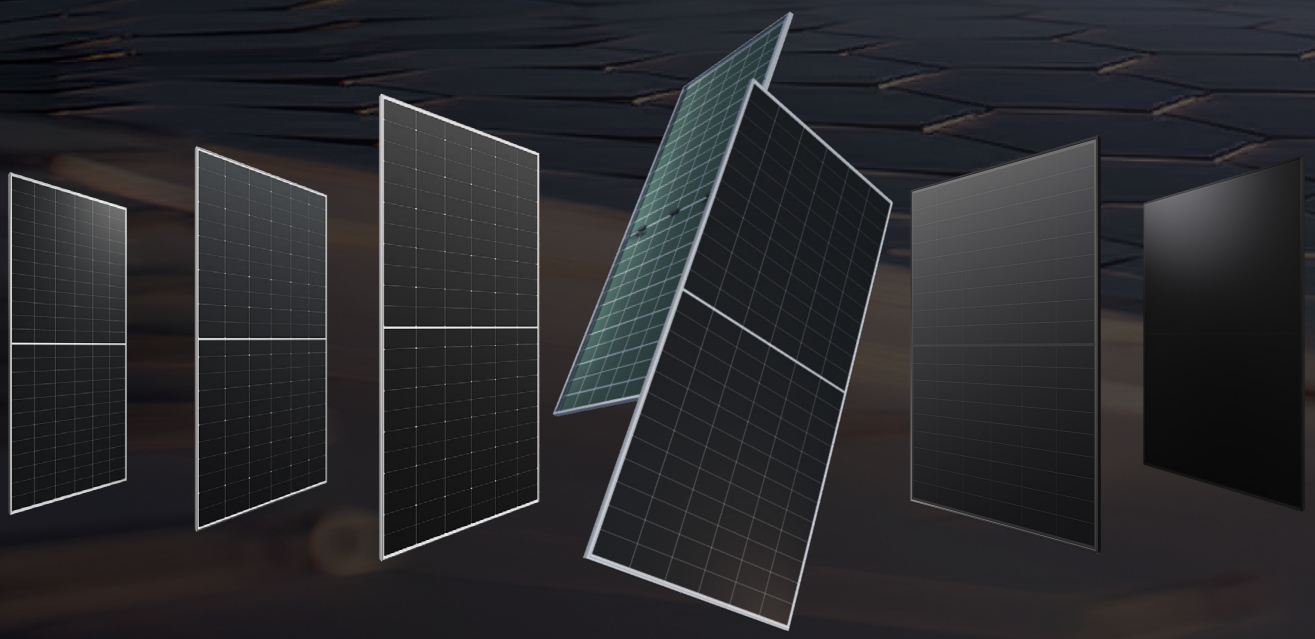
Superior raw materials standards
Uncompromised reliability standards

Manufacturing Leading

Cutting edge technological and sustainable manufacturing at the world's first Lighthouse Factory

Hi-MO X10 Explorer

Hi-MO X10 Scientist



Hi-MO X10 Guardian

Hi-MO X10 Artist

LONGi

www.longi.com

2024 10

To Make the Best of Solar Energy
To Build a Green World

Founded in 2000, LONGi Green Energy Technology Co., Ltd. (LONGi) is dedicated to becoming the world' s most valuable solar technology company. Guided by its mission, 'Harnessing Solar Energy to Build a Greener World,' LONGi positions itself as the most trusted and reliable pioneer in green technology. With a commitment to innovation, LONGi develops tailored solutions for large-scale power plants, diverse industries, and households, empowering a sustainable future for all.

125.42GW
Monocrystalline Silicon Wafer Shipment (2023)

170GW
Monocrystalline Silicon Wafer Capacity (2023)

200GW
Annual Capacity Plan for the Next Three Years Wafer Annual Planed Capacity

67.52GW
Monocrystalline Silicon Module Shipment (2023)

120GW
Monocrystalline Silicon Module Capacity (2023)

150GW
Annual Capacity Plan for the Next Three Years Module Annual Planed Capacity

LONGi consistently leads the industry in risk management and adaptability, prioritizing financial health and stability across its operations. With a low asset-liability ratio compared to other global PV manufacturers, LONGi stands out for its robust approach to corporate resilience and sustainable growth.

TIER 1

Tier 1 PV Module Manufacturer
Source: BNEF 1Q 2024 Global PV Market Outlook

100%

100% Bankable PV Module Brand
Source : BNEF PV Module & Inverter Bankability 2023

AAA

PV Module Tech Bankability Rating
Source : PV ModuleTech Bankability Ratings Quarterly | Q1' 24 Release