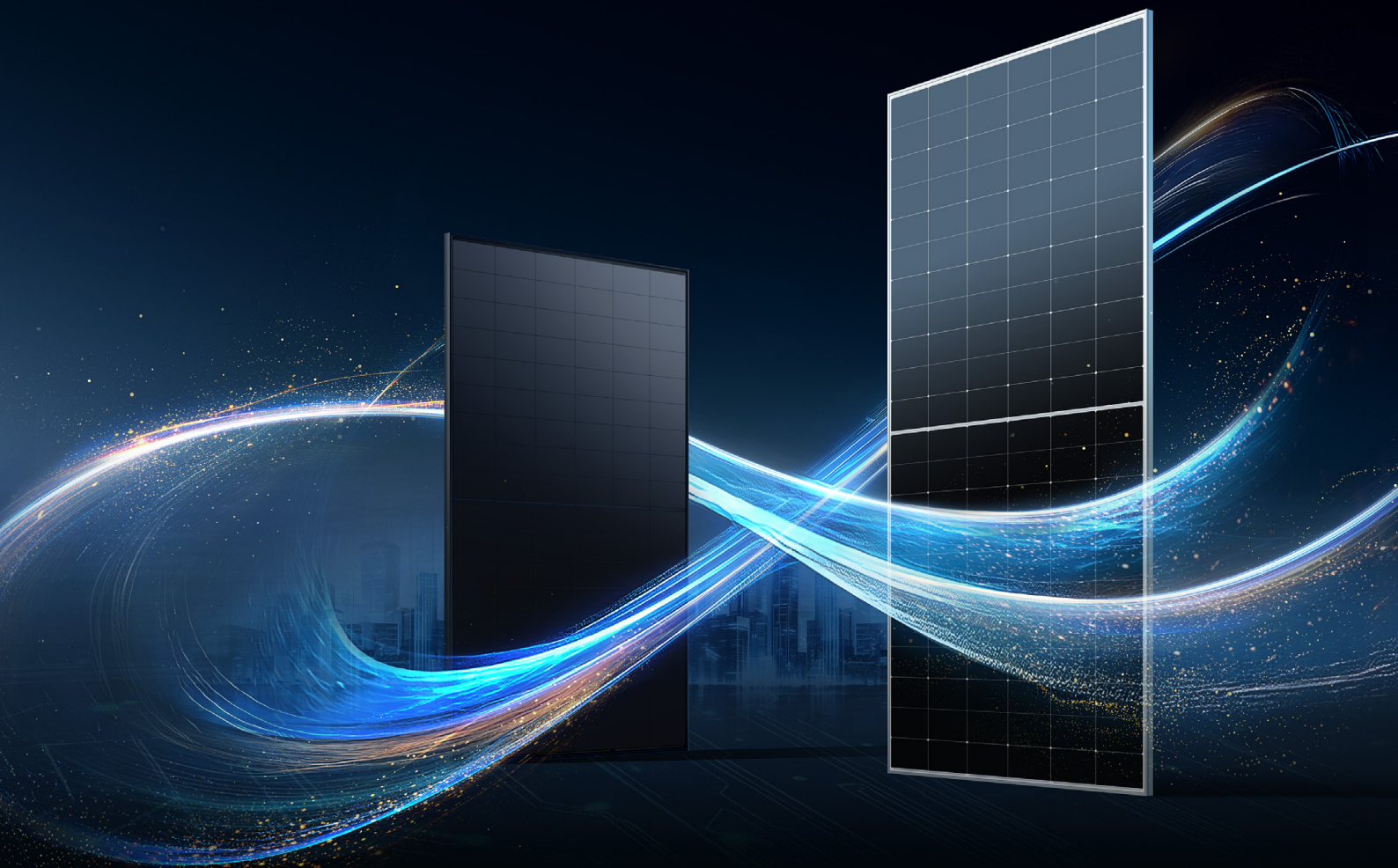


LONGI

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

Breakthrough in Key Materials and Processes

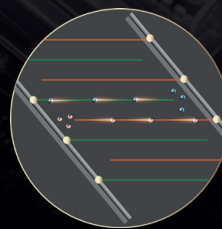
High-Transparency Insulation Materials and
AI Assisted Manufacturing

Innovative Development Of OBB Structures

No frontal gridlines, No back busbars

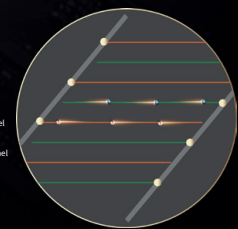


Traditional BC backside gridline structure



Charged particles moving toward the positive or negative zones must cover a certain distance to be collected by the busbar, which can result in some losses during free movement

Hi-MO X10
Backside OBB structure

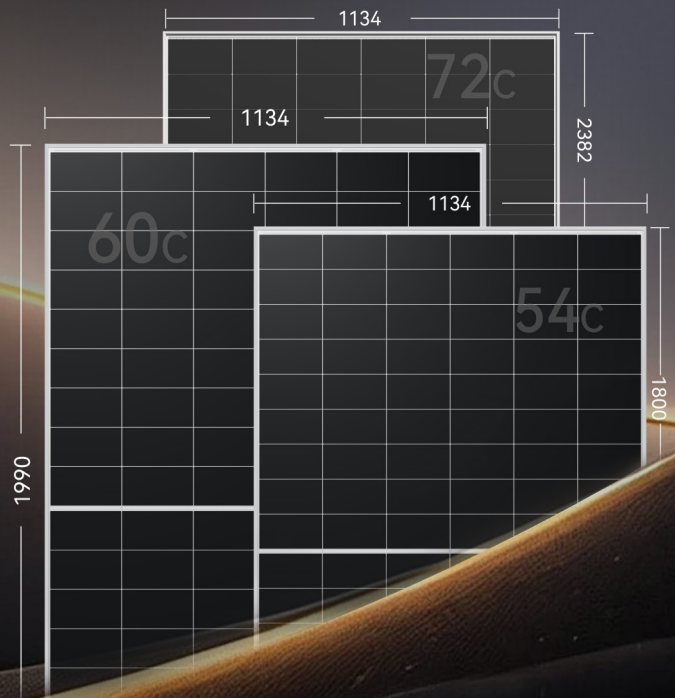


With back-side positive and negative fingers directly connected to the welding strip, the transmission distance is minimized, enhancing current flow and increasing module power by 5W+

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

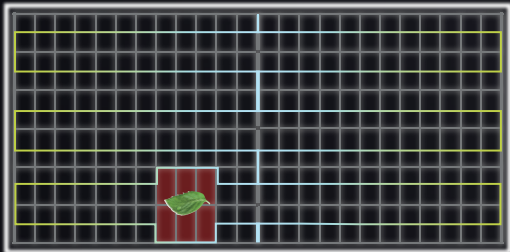
Establishing Core Superiority with Cutting-Edge Innovation

Shading Optimizer Technology

No Fear of Partial Shading | Lower Power Loss

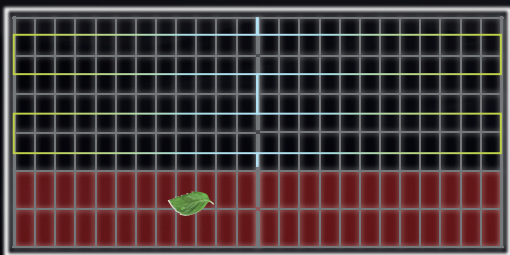
Hi-MO X10

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



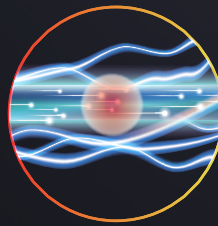
Regular Module

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



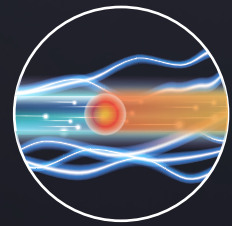
Preventing localized overheating

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



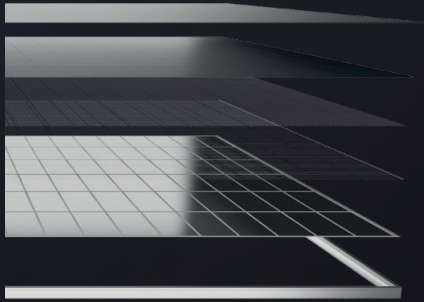
Low Temperature Coefficient

Full-Scenario Aging Suppression

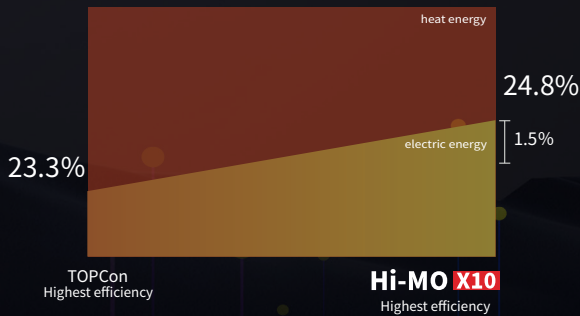
Packaging Built to Resist Aging | Increased Efficiency with Lower Temperatures

High-Reliability Lamination

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



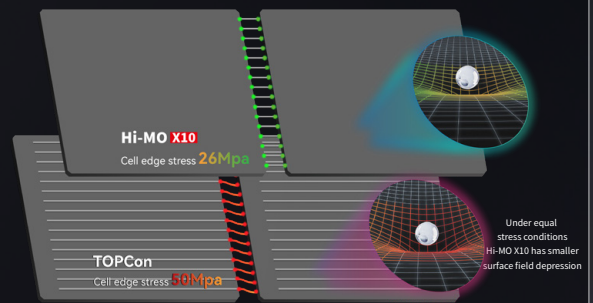
Lower Operating Temperatures



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 10 μ m greater than other mainstream wafers leading to better reliability



Back Side Straight-Line Welding

Reduces cell edge stress and micro-cracking issues



Shading Optimizer



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

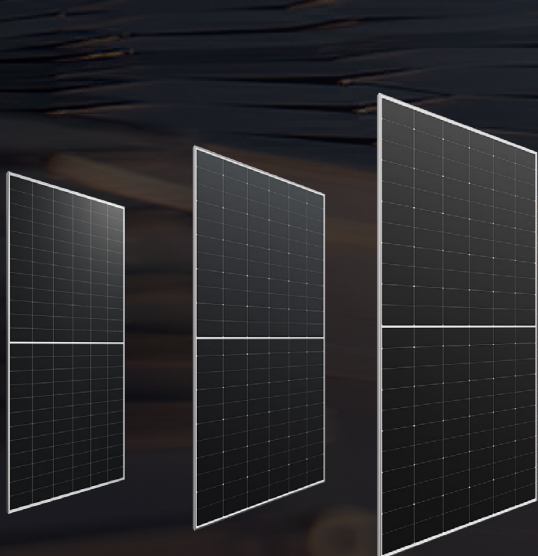


Manufacturing Leading

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

Hi-MO X10

Explorer



Hi-MO X10

Guardian



Hi-MO X10

Scientist



Hi-MO X10

Artist

LONGi

www.longi.com

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 Planned 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 Planned 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 | Q3' 24 Release