Hi-MO 5
Shaping the future. Once again.

540W

Delivering true value
Higher power, lower LCOE
Since its founding 20 years ago, LONGi has been deeply involved in the photovoltaics industry and has continuously promoted its breakthrough innovations.

Every LONGi’s successive technological innovation had brought about an industrial transformation.

LONGi believes that the value of every innovation lies in real world applications. With scale, volume production of the product delivers true value. LONGi is committed to delivering maximum value for our global partners and customers.
From standard monocrystalline to monocrystalline PERC to P-Type PERC bifacial technology and M6 (166mm) size wafer with gallium-doped technology, every LONGi’s new product spearheads the transformation of the photovoltaics industry and becomes a new benchmark for the entire industry.

Global Monocrystalline market share up to 90%
Leading LCOE, realizing the value of technological innovation in volume production

LONGi insists on research-based methods to achieve industry breakthroughs and quickly promote the commercialization of every innovation.

Data source: ITRPV.

*LCOE calculation: 1500kWh/kWp first-year power generation for monofacial modules (bifacial gain: 8%); 80% debt with 4% interest rate; 2% discount rate; 20-year straight line depreciation.

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Shaping the future. Once again.

Delivering true value | Higher power, lower LCOE

Hi-MO 5

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Hi-MO 5
Product specifications
540W LR5-72HBD

- Power output: 540W
- Module efficiency: 21%+

- M10 wafer with gallium-doped technology
- P-PERC cell technology
- Half-cut cell with multi-busbars
- 72-cell format
- Voc: 49.5V
- Imp: 13.0A
- Power temperature coefficient: -0.35%/°C
- Weight: 32.3kg

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Lowest LCOE solutions for ultra-large power plants

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**Hi-MO 5**

**Lowest LCOE solutions** for ultra-large power plants

- **Lower logistics cost**
  - Optimizes use of containers space in transport.
  - Logistics costs 10% lower than mainstream products.

- **Improved system capacity ratio**
  - Matched with string inverters, cost per watt on the AC side is reduced.

- **Reduce equipment & material cost**
  - Hi-MO 5 enables higher power per string, significantly reducing racking, pile foundation, cable, combiner box and land cost.

- **Saves labor cost**
  - Reduce installation costs for modules, cables, etc.

- **Power generation**
  - High module power and excellent power generation performance under low light.
  - Low power temperature coefficient.
  - Reliable bifacial module power generation gain.
  - Industry-leading power warranty.

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**Hi-MO 5**

**BOS analysis : scenario 01**

Location: Jiuquan, China. 100MWdc solar plant with 1500V central inverters, each standard solar subarray with a 3125kVA transformer, and a DC-to-AC ratio of 1.2 for different types of solar modules.

**BOS analysis**

(Fixed-tilt racking with 4L solar modules -21℃ for design lowest temperature, 110kV utility grid voltage)

<table>
<thead>
<tr>
<th>Product</th>
<th>158.75, 72C</th>
<th>163.75, 78C</th>
<th>210, 50C</th>
<th>Hi-MO 5 72C</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power</td>
<td>410W</td>
<td>465W</td>
<td>495W</td>
<td>540W</td>
</tr>
<tr>
<td>No. of Module / String</td>
<td>27</td>
<td>25</td>
<td>26</td>
<td>27</td>
</tr>
<tr>
<td>Power / String</td>
<td>11.07kW</td>
<td>11.625kW</td>
<td>12.87kW</td>
<td>14.58kW</td>
</tr>
</tbody>
</table>

**BOS cost**

- Labor cost: -20.9%
- Land cost: -5.3%
- BOS cost: -4.1%
- LCOE: -2.9%

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**Hi-MO5**

### BOS analysis: scenario 02

Location: Qatar, Middle East. 100MWdc solar plant with 1500V central inverters, each standard solar subarray with a 6250kVA transformer, and a DC-to-AC ratio of 1.06 for different types of solar modules.

*BOS analysis (Horizontal single-axis tracker with 2P solar modules, 9.8℃ for design lowest temperature, 132kV utility grid voltage).*

<table>
<thead>
<tr>
<th>Product</th>
<th>Hi-MO5 72C</th>
<th>210, 50C</th>
<th>163.75, 78C</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power</td>
<td>540W</td>
<td>210</td>
<td>163.75</td>
</tr>
<tr>
<td>No. of Module / String</td>
<td>30</td>
<td>29</td>
<td>28</td>
</tr>
<tr>
<td>Power / String</td>
<td>16.2kW</td>
<td>14.355kW</td>
<td>13.02W</td>
</tr>
</tbody>
</table>

**BOS**

- **Mounting system**: Reference, 0.5%
- **Combiner box**: Reference, 9.0%
- **Cable**: Reference, -11.2%
- **Labor**: Reference, -5.2%
- **Land**: Reference, -1.1%
- **Total BOS**: Reference, -1.0%

**LCOE**

- **Reference**: -0.5%

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*Considering difference in power degradation warranty but not the difference in bifacial energy yield.
Hi-MO 5
Outstanding design
Reliable real world applications

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LONGi's smart soldering technology uses integrated segmented ribbons. The triangular section maximizes light capturing while the flat section reliably connects cells with reduced gap. Smart soldering technology reduces the tensile stress of the cell by 20%, enabling higher reliability.
Gallium-doped technology
P-type module with lowest LID

LONGi products use gallium-doped PERC cells.
Better LID performance with stable, long-term power generation.

Leading power warranty

- 98% in the 1st year
- ≤ 2% 1st year degradation
- -0.45% Linear annual degradation after the 1st year

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Hi-MO 5

Double-glass with frame
The strongest bifacial module

Hi-MO 5 adopts bifacial double-glass with frame which provides exceptional strength for higher load capacity. Qualified for 5400Pa static load on the front when there is no cross-beam on the back of the module (as shown in the figure). Avoids shading loss due to cross-beam at the back of the module.

Installation method
double glass bifacial module

5400/2400 Pa
Front/rear side loading
Hi-MO 5

Optimized electrical parameters
Fully compatible with inverters

The operating current of LONGi Hi-MO 5 module is about 13A. Including bifacial gain, the operating current remains within the maximum input current range of advanced inverters, hence there is no power generation loss.

Hi-MO 5

Optimized module size
Perfectly matched with tracking systems

A Hi-MO 5 module length is about 2.25 meters. Compatible with mainstream 1P and 2P horizontal single axis tracking system. Bifacial module + tracking system can achieve the lowest LCOE in low latitude areas.

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Hi-MO 5
We embrace innovations with our global customers
LONGi partners with global customers to build demonstration power plants around the world to jointly prove the superior value of Hi-MO 5 system solutions.

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* Sort in alphabetical order.
Once again, we take the lead in volume production

LONGi believes that the core value of innovation lies in real world application, and volume production of the technology delivers visible value. LONGi is committed to creating the maximum value for our global partners and customers.

**Hi-MO 5**

Global capacity (Except U.S. market)

2020 Q3: 12.0 GW

2021 Q1: 1.50 GW

Global capacity

13.5 GW

for Hi-MO 5

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LONGi product portfolio

Hi-MO 5 extends the Hi-MO series of LONGi’s high performance module products. Concurrently available with Hi-MO 4, LONGi’s product portfolio is suited for a wide range of photovoltaic applications.

Hi-MO 4
60c
Best for rooftop DG projects
Residential rooftop
C&I rooftop

Hi-MO 4
72c
Most cost-effective mainstream product
Large ground power station
Floating power station
C&I rooftop

Hi-MO 5
72c
Optimal choice for ultra-large power plants
Ultra-large power station

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