



# LONGI SOLAR PRODUCT SPECIFICATION



In early 2026, LONGi Solar has transitioned from being a "budget" workhorse to a technology leader, largely by abandoning older cell designs in favor of their proprietary HPBC (Hybrid Passivated Back Contact) technology.

While they remain competitively priced, their latest panels now rival premium brands in efficiency and aesthetics. If you are looking for a "safe bet" that has evolved significantly in the last two years, LONGi is currently at the top of the list.

## The Technology Shift: HPBC 2.0

LONGi has moved away from the industry-standard TOPCon technology to focus on Back Contact (BC) cells.

- The "No Wires" Look: The latest Hi-MO X6 and Hi-MO 9 series have no grid lines on the front. This isn't just for looks; removing the wires on the front allows the cell to absorb more sunlight and perform significantly better in low-light or hazy conditions.
- Efficiency Breakthroughs: Mass-produced LONGi panels now reach efficiencies of 22.5% to 24.8%, officially moving them into the "High Efficiency" bracket alongside brands like Maxison and REC.
- Hi-MO 9 (Utility & Large Residential): Launched late last year, the Hi-MO 9 uses HPBC 2.0 cells, offering a massive 660W+ output with a 30-year

## Manufacturing & Sustainability

LONGi is on track to meet its RE100 goal of using 100% renewable energy for its manufacturing by 2028. As of 2026, they have passed the 50% mark, making them one of the "greener" choices among the major Chinese manufacturers.

- Australian Support: They maintain a strong local office in Sydney to handle technical queries and warranty claims.
- Vertically Integrated: LONGi makes everything from the silicon ingot to the final module, which allows for much tighter quality control than brands that "outsource" their cell production.

## LONGi Panels: 2026 Pros & Cons

Pros	Cons
<ul style="list-style-type: none"><li>✓ <b>AAA Bankability:</b> LONGi has held the highest AAA rating in the PV ModuleTech Bankability Report for over 23 consecutive quarters. They are arguably the most financially stable solar company on the planet.</li><li>✓ <b>25-Year Full Warranty:</b> Most LONGi panels installed on Australian roofs (Hi-MO X6 Explorer/Scientist) now come with a 25-year product and performance warranty as standard.</li><li>✓ <b>Superior Heat Tolerance:</b> With a temperature coefficient of <math>-0.26\%/^{\circ}\text{C}</math> to <math>-0.28\%/^{\circ}\text{C}</math>, they lose less power than the average panel when the Australian sun hits <math>40^{\circ}\text{C}</math>.</li><li>✓ <b>Partial Shade Resilience:</b> The new HPBC cell structure is inherently more resistant to "hot spots" caused by bird droppings or tree shadows, which improves long-term fire safety and reliability.</li></ul>	<ul style="list-style-type: none"><li>✗ <b>Panel Size:</b> Like most modern manufacturers, LONGi's high-wattage panels are getting physically larger and heavier (some over 33kg), which can be a challenge for older roof structures.</li><li>✗ <b>Strict Installation Rules:</b> Their manual is quite specific about tilt (minimum <math>10^{\circ}</math> recommended for self-cleaning) and proximity to the ocean (50m+ from the beach) to avoid salt corrosion issues.</li></ul> <p>Clunky Website: Their online portal can still be difficult to navigate for warranty registration, though their local Australian team is excellent at picking up the slack.</p>

## Warranty & Support Contact

If your installer is no longer around, you can deal with LONGi Australia directly:

- Phone: 02 8484 5805
- Email: [au@longi.com](mailto:au@longi.com)
- Address: Level 8, 124 Walker Street, North Sydney NSW 206

## Final Verdict:

LONGi has successfully shed its "budget" skin. In 2026, they offer some of the most technologically advanced panels in Australia. They are a "set and forget" choice that offers high-end performance without the high-end price tag.