

# The latest technology of LONGi photovoltaic panels



## Overview

Certified by the authoritative Institute for Solar Energy Research Hamelin (ISFH) in Germany, the photoelectric conversion efficiency of LONGi's independently developed hybrid back-contact crystalline silicon solar cell (HIBC) has reached 27.81%, pushing the exploration of the. LONGi supplies its reliable, high-performance solar modules to 6 continents and 85 countries and regions to power the world toward a low carbon future. HIBC (Hybrid Interdigitated Back-Contact) refers to a high-low temperature composite passivated back contact technology. LONGi has laid out several. At the key node of intergenerational transition of global Photovoltaic (PV) technology, the back contact (BC) cell technology is leading the new-generation PV technology paradigm revolution, becoming the core engine to drive industry cost reduction and efficiency improvement and realize energy. Industry-Leading Efficiency at Competitive Prices: LONGi achieves up to 24.43% efficiency in commercial production while maintaining pricing of \$2. By offering high-quality, reliable products and systems, we provide holistic solutions for the solar and renewables industry. A full. On June 12th 2025, at the highly anticipated SNEC 18th (2025) International Photovoltaic Power Generation and Smart Energy Conference & Exhibition, LONGi announced two groundbreaking technological breakthroughs at the Technology Innovation Session. Certified by the US National Renewable Energy Laboratory (NREL), the company's.



## Article Content

LONGi EcoLife Series Module Top TaiyangNews Global Ranking,

This milestone marks international recognition of LONGi's innovation strength in the back-contact (BC) technology pathway and ushers in a new "25%+" era for PV module efficiency.

Photovoltaic Solar Panels: Complete Guide To PV

Comprehensive guide to photovoltaic solar panels covering types, efficiency, costs, and installation. Latest 2025 market data and expert insights

Solar Panel Technology Comparison 2026: Monocrystalline vs Bifacial

Complete technical analysis of solar panel technologies in 2026. Efficiencies, costs per Wp, durability, warranties, optimal use cases, and emerging technologies like perovskite and tandem

Latest Solar Panel Technology

Solar Panels Featuring the Latest Technologies Below is our list of panels featuring the latest advancements in PV technology rated according to the cell technology, efficiency

LONGi announced two new global solar cell efficiency records

Equipped with LONGi's latest BC solar cells and flexible encapsulation technology, the vehicle will compete in the Bridgestone World Solar Challenge (BWSC).

Longi sets two world records for solar cell efficiency

Chinese solar technology giant Longi Green Energy Technology Co Ltd announced two new world records for solar cell efficiency recently, further cementing China's leading position in the

LONGi Unveils 700W Solar Module Powered by HIBC Technology

Built on HIBC technology, the series achieves a mass-produced cell efficiency of 27.3 percent and module efficiency exceeding 25 percent, signaling a new era of commercially available

Standard Solar Panel Sizes And Wattages (100W-600W Dimensions,

Average length, width, thickness, weight, and area for 100W to 600W solar panels — built from 60+ current manufacturer datasheets (LONGi, JinkoSolar, REC, SunPower, Q CELLS, Renogy,

Solar Photovoltaic: Everything You Should Know

What is a solar photovoltaic (PV) system? A solar PV system is a technology that converts sunlight directly into electricity using the photovoltaic effect. PV systems

## The World's Leading Supplier of Solar PV Solutions

Backed by advanced technologies, our modules feature excellent power ratings and top conversion efficiencies, and can be used across all market segments. Our field-proven bifacial modules deliver

## 2025 Solar Energy Statistics: Latest Industry Survey Data

These statistics explain the American solar industry, as hundreds of companies share their top brands, biggest challenges, and outlook for 2025.

## LONGi Solar Panels: Complete 2025 Review & Buyer's Guide

This comprehensive guide examines everything you need to know about LONGi solar panels, from their cutting-edge technology and performance capabilities to pricing, warranties, and

## LONGi Green Energy Technology Co Ltd

The latest international LONGi Green Energy Technology Co Ltd news and views from Reuters - one of the world's largest news agencies

## The World's Leading Supplier of Solar PV Solutions

Back Contact (BC) Solar Technology Development White Paper At the key node of intergenerational transition of global Photovoltaic (PV) technology, the back

## LONGi Takes the Lead in Breakthrough in Flexible Tandem

The “High-Efficiency and Stable Flexible Perovskite-Silicon Tandem Solar Cell Technology,” jointly developed by LONGi Green Energy Technology Co., Ltd. and Soochow

## Best Solar Panels Of 2026 – Forbes Home

Looking for info on the best solar panels? Discover expert opinions and data-driven insights on solar energy solutions for your home and based on

## Top 10 Global Photovoltaic Module Manufacturers in 2025

Based on the 2025 market shipment forecast and technology analysis, this report provides an in-depth overview of the world's top 10

## Tier 1 Solar Panel Manufacturers List – Q1 2026

Tier 1 list of solar panel manufacturers Q1 2026 according to BloombergNEF. Discover which brands lead the photovoltaic market.

## All PV News & Industry Updates | pv magazine Global

Stay updated on the latest solar and photovoltaic industry news, market trends, and technology insights worldwide.

Why did renewables become so cheap so fast?

For this, let's go back in time for a moment. The first price point for usable solar technology that I can find is from the year 1956. At that time, the cost of just one watt of solar photovoltaic

LONGi sets new 33.4% solar efficiency record

LONGi, a major photovoltaics company founded in China in 2000, has announced a significant advance in solar cell performance, setting a new world record efficiency with a flexible

LONGi announces two new global solar cell efficiency records

LONGi has announced two groundbreaking technological breakthroughs at the recent SNEC 2025 event.

## Contact Us

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