MERHEIN
Technical Datasheet

17 April 2026

550W Polycrystalline Solar Panel with 10BB Technology

This polycrystalline solar panel uses Grade A+ solar cells, each with a complete IV curve. It features high safety and a long lifespan, with a conversion efficiency exceeding 19.5%.

Product Overview

High-Efficiency 550W Solar Module

This 550W polycrystalline solar panel utilizes advanced 10-busbar (10BB) technology to optimize current collection and minimize internal heat loss. Designed for superior reliability, the module features high-performance solar cells that deliver conversion efficiencies exceeding 19.5%. Built to withstand rigorous environmental conditions, it is an ideal solution for residential, commercial, and utility-scale solar installations.

Technical Specifications

Maximum Power	550 W
Cell Count	72
Conversion Efficiency	19.5 %
Busbar Technology	10BB (10 Busbar)

Rooms 05–15, 13A/F South Tower, World Finance Centre, Harbour City, 17 Canton Rd, Tsim Sha Tsui, Kowloon, Hong Kong

Durability & Standards

Load Capacity

2400 Pa	5400 Pa
Wind Load	Snow Load

Warranty Terms

- 10-year quality assurance on material and processing
- 25-year linear performance warranty

Key Features & Resistance	PID Resistance, PERC Technology, Grade A+ Cells, Half-cut Cell Design