

HJ-B1-520W

High-Efficiency PV Modules | Product code: HJ-B1-520W

1.8 mm thick, 2.9 kg/m², bends to a 0.3 m radius — the world's first 520 W hail-resistant, micro-crack-free flexible crystalline silicon module.

The roofs that most need photovoltaics are the ones that cannot carry it. Colour steel tile, glazed tile and older industrial decks were never engineered for 11 kg/m² of glass, and the structural retrofit costs more than the array it would support.



Key characteristics

2.9 kg/m² and 1.8 mm thick	Under 30% of the weight of a traditional glass module, which changes transport, handling and installation as much as it changes the structural calculation.
Bends to a minimum radius of 0.3 m	Adapts to curved and irregular installation surfaces that a rigid laminate cannot follow.
Nanofiber reinforcement five times stronger than steel	Self-developed high-strength material. Withstands 25 mm diameter hail at 82.8 km/h with degradation under one fifth of the international standard limit, and endures stepping and vehicle pressure.
≥20% efficiency on module active area	First-year degradation ≤2.5%, then ≤0.5% a year, holding ≥85% efficiency after 25 years.
Adhesive fixing, no roof damage	Suitable for low-load roof types such as colour steel tile and glazed tile, cutting construction time, installation cost and complexity.
Built to be looked at	Customised installation to suit the architecture, for genuine building-integrated photovoltaics rather than panels bolted onto a building.

Applications

- Low-load industrial and commercial roofs
- Colour steel tile and glazed tile roofs
- Curved roofs and façades
- BIPV projects

Enquiries

Quotations, full datasheets and certificates are issued against a product code and a destination market. Write to info@hondolsolar.com with the cell technology, the module construction, the annual volume and the destination market.

All values are as published by the manufacturer. Tolerances, roll formats and electrical data are confirmed in writing per order. Suzhou Hondol New Material Co., Ltd. No.518, Xinzhen Road, Tong'an Town, SND, Suzhou, Jiangsu, China. PT. Hondol Material Indonesia, Samara Industrial Park, Batam, Kepulauan Riau, Indonesia.