SunFold Factory Catalogue

2026 · Shenzhen Zhituo Software Co., Ltd.

The factories' window — not a middleman.

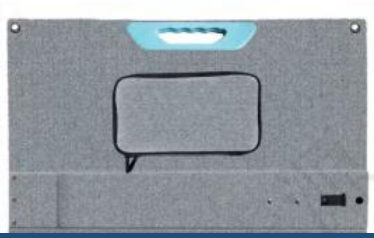
Flexible · Foldable · Rigid · Thin-film · Perovskite

Four cell technology routes · Nine panel families · 0.03 to 1,200 W



Folding kit opened on grass — production photo. Every photo in this catalogue is a production photo — no renders.







Partner factory campus, Shenzhen.

01 · WHO WE ARE

The factories' window — not a middleman

SunFold is the sales window into qualified solar OEM factories in Shenzhen — the lines that build flexible, portable, rigid and custom modules for brand owners. Send the requirement and we match it to the right factory, then quote at the production-line price. Brand freedom is yours: SunFold, your own brand, or a direct factory contract.

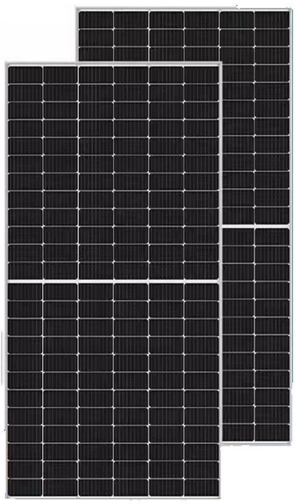
2019	9	4	400 W
Registered	Panel families	Tech routes	Custom max

What you get	How it works
Factory-direct pricing	You buy at factory price, not resale price — quoted from the producing line's own cost table.
Multi-factory ecosystem	One requirement, several factories — we match the best fit, not what is in stock.
Non-standard custom	Built to your drawing — size, wattage, connectors; fast samples, fast delivery.
Your brand or ours	SunFold, your own brand, or a supply agreement signed directly with the factory.

02 · PRODUCT MAP

Four cell technology routes

Most suppliers sell what their single factory makes. We evaluate crystalline, BC, CIGS and perovskite side by side, then quote the route that fits your cost target and use case.



Route	Where it wins
01 · Crystalline Silicon	Best cost per watt, proven longevity, non-standard sizes to 400 W. For cost-driven volume projects.
02 · BC Back-Contact	Busbars behind the cell — uninterrupted all-black face, higher efficiency. For visible, design-led installs.
03 · CIGS Thin-Film	Rolls through 360 degrees with zero micro-cracks, a fraction of glass weight, works in weak light. For RV and marine.
04 · Perovskite	Exceptional power-to-weight, custom shapes, indoor and low-light electronics. For sensors and wearables.

02 · PRODUCT MAP

Nine panel families

Family	What ships
01 · Rigid Glass Modules	Standard frame sizes to 400 W — rooftops, ground mount.
02 · Custom Flexible Modules	ETFE-laminated, non-standard sizes to 400 W.
03 · Premium Custom Crystalline	Panels engineered into the product itself.
04 · Bifacial Folding Kit	Both faces generating — up to 2x power, magnetic stand.
05 · Foldable Panels	Two- to four-section formats that close into a flat pack.
06 · Custom Solar Applications	Visors, camouflage strips, charger pads, fabric bags.
07 · BC Back-Contact	All-black face, no busbars, strong low-light performance.
08 · CIGS Thin-Film	Ultra-thin laminate on stainless foil, rollable.
09 · Perovskite	Indoor and low-light modules — passive, battery-free IoT power.





300 W-class flexible laminate — production photo.

Flexible laminate — 300 W

HJXN-QZ series · flagship

Pmax	**300 W ±5%**
Module efficiency	**20.3%**
Dimensions	**1,770 × 875 × 3 mm**
Cells	**64 pcs mono 210 mm (4 × 16)**
Front sheet	**ETFE, over 95% light transmission**
Junction box	**IP68**
Operating temp.	**−40 to +85 °C**
Mounting	**Adhesive or stainless eyelets**



Bonded to a curved RV roof. Also standard: 260 / 150 / 100 W laminates and 12 / 25 W micro modules — 8 models, 12 to 300 W. Photographs are representative of the series; the shipped appearance follows the datasheet. Electrical values at STC (1,000 W/m2, AM 1.5, 25 C).



Flexible laminate — 200 W

HJXN-QZ-200W-001

Pmax	**200 W, tolerance 0 to +5 W**
Vmp / Voc	**17.02 V / 20.43 V**
Dimensions	**1,440 × 770 × 3 mm**
Cells	**60 pcs mono (4 × 15)**

Same 1.44 m length as the 150 W — one roof template, two power classes.



Flexible laminate — 170 W

HJXN-QZ-170W

Pmax	**170 W ±5%**
Module efficiency	**19.3%**
Dimensions	**1,160 × 760 × 2.5 mm**
Cells	**72 pcs mono (4 × 18)**

Compact 1.16 m format for van roofs and narrow decks.



400 W folding kit with charge controller and leads.

Portable folding — 400 W

HJXN-YTBX series · flagship

Pmax	**400 W, tolerance 0 to +5%**
Unfolded	**2,650 × 885 mm**
Folded	**705 × 885 mm**
Carry weight	**14.5 kg**
Output	**DC + USB-C, PD; MC4 leads**

Unfold across a bonnet, a lawn or a balcony rail and feed a power station, a laptop and a phone.

400 W
Flagship Pmax

14.5 kg
Carry weight

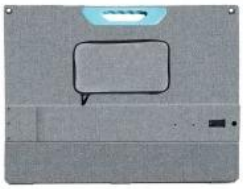
2,650 mm
Unfolded width

+5%
Tolerance only

Full folding range: 400 / 300 / 200 / 125 W integrated lamination (YTBX) and 100 / 60 / 40 / 20 / 8 W sewn bags (FZBX). Photographs are representative of the series; the shipped appearance follows the datasheet. Electrical values at STC (1,000 W/m2, AM 1.5, 25 C).







Portable folding — 200 W

HJXN-YTBX-200W-001

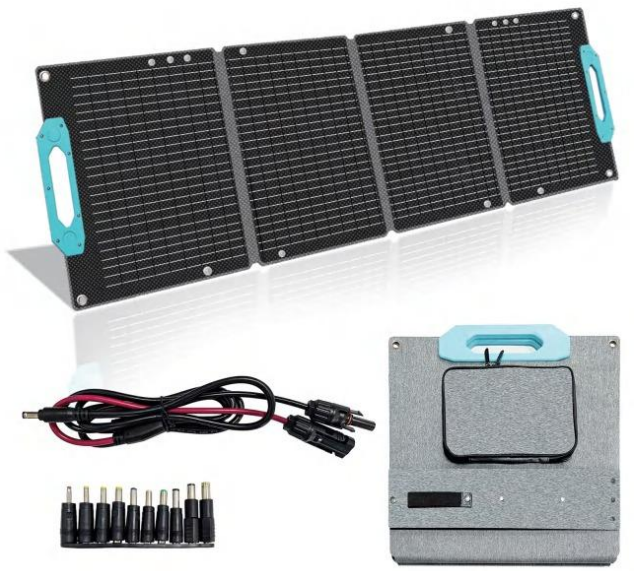
Pmax	**200 W, tolerance 0 to +5 W**
Vmp / Imp	**19.48 V / 10.57 A**
Unfolded / folded	**2,075 × 681 / 552 × 681 mm**
Output	**DC + USB + Type-C PD, MC4**



Portable folding — 125 W

HJXN-YTBX-125W-001

Pmax	**125 W ±5%**
Vmp / Imp	**20.43 V / 6.31 A**
Unfolded / folded	**1,325 × 590 / 635 × 590 mm**
Cells	**72 pcs mono 182 mm**



Folding bag — 100 W

HJXN-FZBX-100W-001

Pmax	**100 W ±5%**
Vmp / Imp	**18.16 V / 6.33 A**
Unfolded / folded	**1,788 × 415 / 477 × 415 mm**
Output	**DC + USB + Type-C, PD**

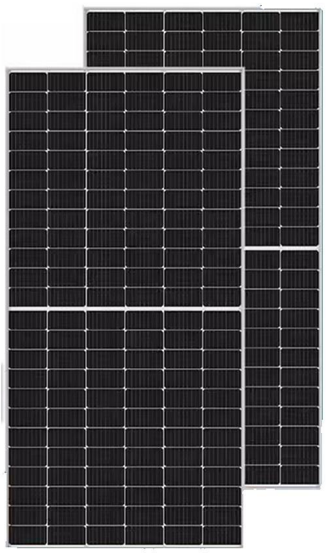


Sewn micro folding bags — 40 / 20 / 8 W

HJXN-FZBX series

Construction	**Sewn fabric case, zip pouch**
Front sheet	**ETFE laminate**
Output	**DC / USB to order**
Formats	**40 / 20 / 8 W stock, custom on request**

20 W: 571 × 241 unfolded, 27 pcs cells. 8 W: 480 × 183 unfolded — daypack formats for trekking and emergency kits.



Rigid glass modules

Up to 400 W · glass + aluminium frame

Power class	**Up to 400 W per module**
Format	**Standard frame sizes, most project specs**
Volume role	**Best cost per watt, shortest lead time**
Datasheet	**Issued per size at quotation**

The highest-volume format: tempered glass in the frame sizes most projects are drawn around. Rooftops, ground mount, container-volume orders.



Bifacial folding solar kit

Bifacial · 2x yield · magnetic stand

Front and rear	**Both faces generating — up to 2x power**
Construction	**No backsheet; lighter than glass**
Hinges / case	**Stainless hinges, folds flat into a slim case**

09 · CIGS THIN-FILM

The one route that cannot crack

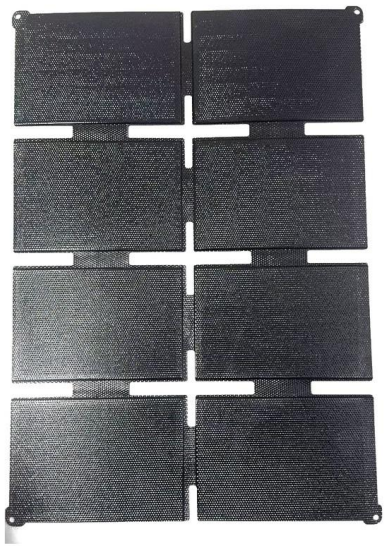
Copper indium gallium selenide laid down roll-to-roll on stainless foil without breaking vacuum. A laminate thinner than a credit card that survives 360-degree bending — and, having no cells or solder joints, it cannot develop micro-cracks.



FLEX-03N narrow roll — butyl adhesive, no rails. Roll-to-roll CIGS on stainless foil.

FLEX-03N narrow	**115 – 130 W · 2,585 × 348 mm · 1.6 kg (1.8 kg/m2)**
FLEX-03N wide	**470 – 500 W · 2,585 × 1,293 mm · 5.5 kg (1.7 kg/m2)**
CIGS-1200 large format	**1,200 W single piece · 1.3 × 5.9 m · logistics roofs, large BIPV**
Warranty	**5 yr product · 25 yr power over 90%**

CE; TUV / UL on project basis. Lead-free, RoHS. Custom widths 0.35 to 1.3 m, lengths to 5.9 m. Even a deliberately damaged panel keeps producing for a time.



All-black modules, built to order

BC / HPBC · datasheet against your drawing

Front face	**Busbar-free, fully black**
Efficiency	**Higher per m2, strong low-light performance**
Safety	**Better temperature coefficient, no hot-spot risk**
Certification	**IEC 61215 / 61730 series**
Warranty	**25-year power warranty**
Lead time	**Drawing + IV table in 3 working days**

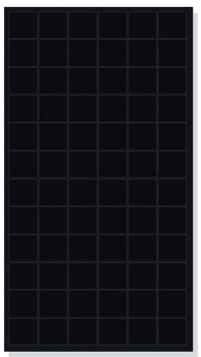


Illustration — the built module is fully black on the front: no busbars, no grid lines. BC modules are built to order: the datasheet is issued against your drawing before you commit.



A 2.39 × 1.16 m module at 4.3 kg — glass would be over 30 kg.

Outdoor flexible — 470 W

BOE-S-B470

Pmax	**470 W (18%)**
Dimensions / weight	**2,390 × 1,160 mm / 4.3 kg**
Bend radius	**100 mm**
Static load	**2,400 Pa front / 1,600 Pa rear**

Outdoor range: BOE-S-B365 / B390 / B415 / B440 / B470, same footprint, 14 to 18%.



Indoor micro module

YHXG-23462-4 · battery-free IoT power

Dimensions	**234 × 64 mm**
Output at 200 lux	**1,442 uW**
Efficiency	**Over 30% at 200–300 lux**

12 · INSIDE THE LINE

Production and quality gates

On a factory visit you walk the exact line that would run your order: cell stringing, ETFE lamination, laser cutting to drawing, robotic handling and the EL inspection screen.



Module assembly line, crystalline. Inline electrical testing follows the laminator.

Quality gate	What we do
EL inspection	Every crystalline run is EL-screened before it leaves the line.
Bend and roll testing	Laminate designs are rolled and flexed on the rig before release.
Encapsulation	ETFE front sheets keep over 95% light transmission across the service life.
Junction boxes	IP68 potting as standard across the crystalline line.



CE, FCC, PSE, CTC — matched to your destination market. We do not publish factory names on open material; on a visit we show you the exact line that would run your order.

13 · APPLICATIONS and MARKETS

Where the panels go

Application	Typical product
RV and Caravan	QZ flexible laminates, adhesive or eyelets
Marine and Yacht	CIGS or QZ flexible, salt-proof
Balcony and Urban PV	QZ-100W eyeleted, folding kit over the rail
Camping and Overland	YTBX / FZBX folding kits, power stations
Off-Grid and IoT	QZ-12W / 25W micro, USB / DC
BIPV	CIGS-1200 bonded laminates, custom widths



RV and caravan — flexible laminate on a curved roof. Your case not on the list? Send the requirement — we match the panel and quote it.

14 · HOW WE WORK

Two ways to buy — your choice

Option A · Contract with the factory	Option B · Contract with the sales window
How it works	You sign with the producing factory and pay the factory. We stay on as coordinator — spec, sampling, QC, shipment — and the factory carries the invoice and warranty.
Single PO	You sign and pay Shenzhen Zhituo Software Co., Ltd. for the whole order; we handle export documents, inspection and logistics on a single PO. Same factory, fewer moving parts.

Factory visit. See the panels being made — lamination, the EL screen, a folding bag opened and closed until you are satisfied. Tell us your travel dates; we arrange the plant tour and an engineers' meeting in one visit.

For a firm quotation: surface dimensions or photos, load target, destination port — price back within 3 working days.

3 days
Quotation

2
Ways to buy

1
Visit covers all



WhatsApp

WeChat

Contact

Contact	**Cherry Zheng — Overseas Sales Manager**
Mobile / WhatsApp	**86-15989515015**
Email	**sales@sunfoldsolar.com**
Web	**SunFold · www.sunfoldsolar.com**