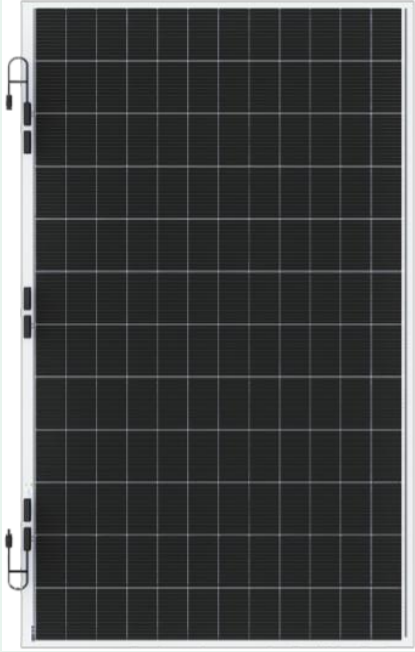
FLEXIBLE SOLAR PV

TOPCon modules | 550-560 W

PRODUCT DATA / EQUIPMENT SELECTION



550-560 W
STC power range

1.8 mm
Module thickness*

7.6 kg
Stated module weight

Compare electrical fit, module construction and mounting requirements as one configuration. Select equipment against the actual project conditions.

WAYTON supports equipment matching, documentation and supply coordination. Confirm the exact model, installation conditions and applicable document revision before procurement.

SPECIFY THE ELECTRICAL FIT

Electrical performance.

Compare like-for-like test conditions across the three power ratings.

Characteristic	550 W	555 W	560 W
Model reference*	B1 010A-550	B1 010A-555	B1 010A-560
Pmax [W] - STC	550	555	560
Pmax [W] - NMOT	414.15	417.92	421.68
Vmp [V] - STC	45.19	45.25	45.29
Vmp [V] - NMOT	42.34	42.40	42.44
Imp [A] - STC	12.18	12.27	12.37
Imp [A] - NMOT	9.79	9.87	9.95
Voc [V] - STC	52.96	53.01	53.05
Voc [V] - NMOT	50.31	50.36	50.40
Isc [A] - STC	12.95	12.92	12.96
Isc [A] - NMOT	10.40	10.43	10.46

STC: AM1.5, 1,000 W/m², cell temperature 25°C; stated test error ±3%. NMOT: 800 W/m², ambient temperature 20°C, wind speed 1 m/s. Values reproduce the declared product data; confirm the model-specific released datasheet for project design.

Temperature characteristics

Parameter	Value
Temperature coefficient of Pmax	-0.29%/°C
Temperature coefficient of Voc	-0.26%/°C
Temperature coefficient of Isc	+0.045%/°C
NOCT	45 ±2°C

* Display references omit the supplier prefix. The exact orderable reference, revision and supporting documents are confirmed before supply. Technical data are not a certificate of conformity.

CHECK THE WHOLE CONFIGURATION

Construction and operating limits.

Assess the module, mounting method and electrical design together.

Mechanical characteristics

Parameter	Stated value
Cell Type	Topcon cell 182.2*91.87mm
Module dimensions	2250*1200*1.8mm (junction box not included)
Weight	7.6kg
Output cable	4mm² ,wire length 400mm (customizable)
Connector	MC4 EVO2 Series
Junction boxes	6 IP68-rated junction box
Backboard Color	White

Application characteristics

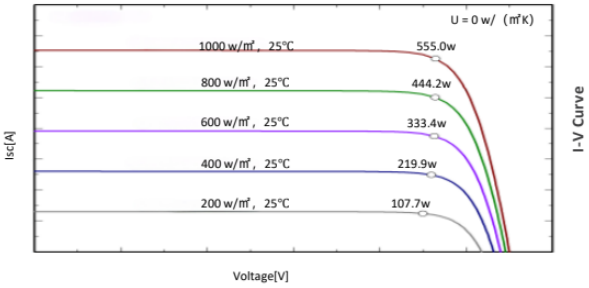
Parameter	Stated value
Max. System Voltage	DC 1500V
Power Tolerance	0-+5W
Operating Temperature Range	-40°C-+85°C
Max. Series Fuse Rating	25A
Mechanical Load	Front 5400Pa,back 2400Pa
Wind Resistance Class	Lv.17
Hailstone Test	25mm hailstone at the speed of 23m/s

The source literature states 2.9 kg/m² areal weight. Minimum bending radius: 0.3 m (flexible construction only). Confirm the permitted mounting or bonding system, dimensions and loading against the current installation guide. Test loads are not site design loads. Any access on modules must follow the model-specific handling procedure.

FROM DATASHEET TO PROCUREMENT

Confirm the supporting documents.

Installation instructions, model-specific evidence and warranty scope complete the equipment specification.



I-V CURVE

Original curve and labels retained. Irradiance: 1,000 / 800 / 600 / 400 / 200 W/m², at 25°C. The curve is a reference characteristic, not additional rated variants.

Published performance statements

Item	Source product literature states
Maximum efficiency	21%
First-year degradation	≤1%
Annual degradation, years 2-25	≤0.4%
Retained power at year 25	89.4% (labelled performance curve)
Product / performance warranty	12 years / 25 years, subject to issuer terms

These are source product statements, not a new warranty issued by WAYTON. Obtain the applicable manufacturer terms for the exact model and market, including exclusions for non-static use. No certification or insurance seals are reproduced without model-specific evidence.

Packing and logistics

Transport	Modules	Per pallet
40' HQ	1260	70
13m	1400	70
17.5m	1960	70

Match the equipment to your project.

Send the country, target capacity, installation details, inverter specification, quantity and required delivery date.

www.waytonenergy.com/products/solar-panels/

WAYTON edition: 25 November 2026 | Technical basis: 202605_V1.3.1_EN. Confirm the current model release and project applicability before ordering.