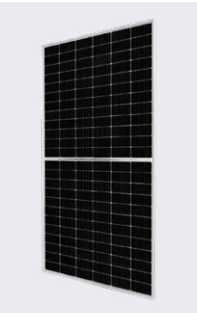
Bifacial Double-Glass Series 450W–720W

Utility-scale TOPCon bifacial panels with double-glass strength and low degradation

- TOPCon cell architecture delivers industry-leading efficiency with lower lifetime degradation.
- Bifacial design captures reflected light on the rear surface for additional energy yield.
- Double-glass laminate offers superior resilience, weatherproofing and extended service life.
- SMBB design reduces shading, current per busbar and hot-spot risk in all conditions.





TOPCon | SMBB | Bifacial | Double-glass | IP68 | 1500V DC

Product Specification

Model	EU-450-BMA-HV	EU-540W	EU-590W	640W N-type	EU-720W
Rated power (Pmax)	450W	540W	590W	640W	720W
Power tolerance	0 to +3W	0 to +5W	0 to +5W	0 to +3%	0 to +5W
Technology	Mono half-cell	Mono half-cell	TOPCon bifacial	N-type TOPCon	TOPCon bifacial
Module efficiency	21.1%	21.1%	21.1%	22.5–23.0%	23.18%
Peak voltage (Vmp)	41.20V	40.80V	44.2V approx.	41.30V	40.9V approx.
Peak current (Imp)	10.92A	13.27A	13.4A approx.	15.50A	17.6A approx.
Open circuit voltage (Voc)	50.06V	49.50V	52.9V approx.	49.88V	49.0V approx.
Short circuit current (Isc)	11.47A	13.85A	14.1A approx.	16.32A	18.7A approx.
Cell array	144 (6×24)	144 (6×24)	144 (6×24) approx.	132 (6×22)	132 (6×22) approx.
Dimensions (mm)	2094×1038×35	2256×1133×35	2278×1134×30 approx.	2279×1134×30	2384×1303×33 approx.
Weight	23.5kg	27.5kg	31kg approx.	32.5kg approx.	37.5kg approx.
Glass	3.2mm ARC tempered	3.2mm ARC tempered	Double-glass	Double-glass, 2.0mm	Double-glass

Construction

Cell type	182 mono half-cell (450/540W); TOPCon (590/720W); N-type mono (640W)
Front glass	3.2mm ARC tempered (450/540W); 2.0mm low-iron tempered (640W)
Frame	Anodised aluminium alloy
Junction box	IP68, 3 diodes
Cable	4mm², 300mm
Connectors	MC4 compatible

Ratings & Environment

Max system voltage	1500V DC
Max series fuse	20A (EU-450-BMA-HV); 25A (EU-540W, 640W)
NOCT	45 ±2°C (450W, 640W); 44 ±2°C (others)
Temp. coefficients	Pmax -0.38%/°C · Voc -0.35%/°C · Isc +0.06%/°C
Temp. coeff. – 640W	Pmax -0.29%/°C · Voc -0.25%/°C · Isc +0.045%/°C
Operating temperature	-40°C to +85°C
Wind / snow load	2400Pa / 5400Pa
Warranty – 640W	30 years; 87.40% at Year 30
Packaging – 640W	20FT: 180 pcs · 40HQ: 720 pcs

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