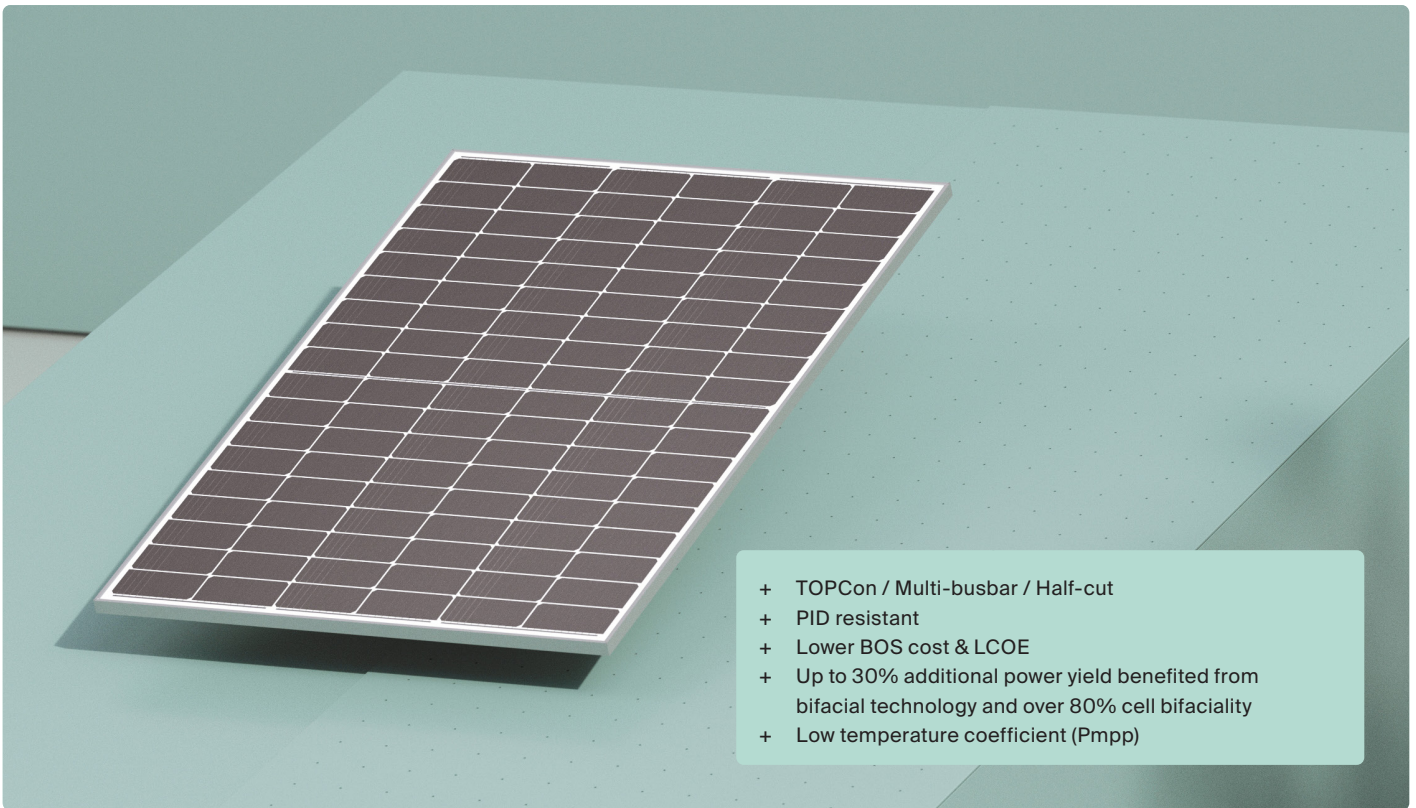


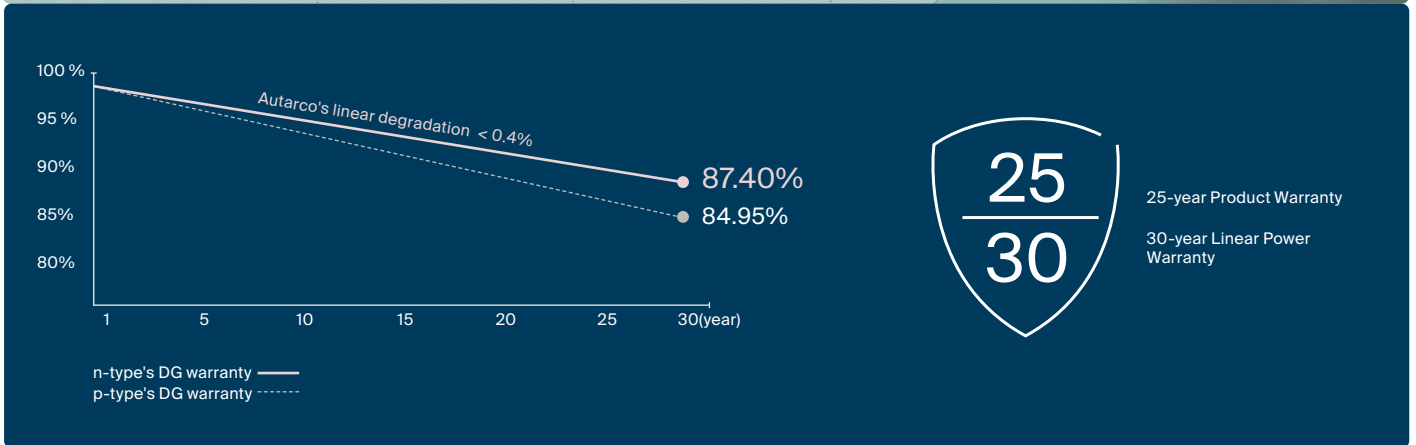
TBU

Series solar panels

Reach full potential



- + TOPCon / Multi-busbar / Half-cut
- + PID resistant
- + Lower BOS cost & LCOE
- + Up to 30% additional power yield benefited from bifacial technology and over 80% cell bifaciality
- + Low temperature coefficient (Pmpp)



IEC 61215, IEC 61730
ISO 9001:2015 / Quality management system
ISO 14001:2015 / Standards for environmental management system
ISO 45001:2018 / International standards for occupational health & safety



Tier 1
BloombergNEF



495~515Wp

Power Range

0~+3W

Power Sorting

23.16%

Max Module Efficiency

≤ 1.0%

First Year Power Degradation

≤ 0.4%

Year 2-30 Power Degradation

Electrical specification

STC: Irradiance 1000W/m², Cell Temperature 25 °C, AM=1.5

Rated output (Pmpp/Wp)	495	500	505	510	515
Open circuit voltage (Voc/V)	39.96	40.24	40.51	40.78	41.06
Short circuit current (Isc/A)	15.75	15.80	15.85	15.90	15.95
Rated voltage (Vmpp/V)	33.27	33.52	33.76	34.00	34.25
Rated current (Impp/A)	14.88	14.92	14.96	15.00	15.04
Module efficiency	22.26%	22.48%	22.71%	22.93%	23.16%

NMOT: Irradiance 800W/m², Ambient Temperature 20 °C, AM=1.5, Wind Speed 1m/s

Rated output (Pmpp/Wp)	379	383	387	391	394
Open circuit voltage (Voc/V)	38.26	38.53	38.79	39.04	39.31
Short circuit current (Isc/A)	12.69	12.73	12.77	12.81	12.85
Rated voltage (Vmpp/V)	31.63	31.86	32.09	32.32	32.55
Rated current (Impp/A)	11.98	12.02	12.05	12.08	12.11

Temperature ratings (STC)

Temp. coefficient (Pmpp)	-0.29%/°C
Temp. coefficient (Isc)	+0.04%/°C
Temp. coefficient (Voc)	-0.25%/°C

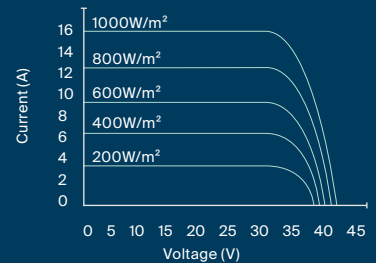
Nominal module operating temperature (NMOT) 42 °C (+/- 2 °C)

Operating parameters

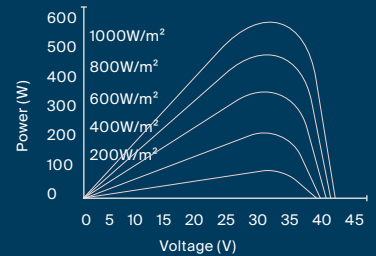
No. of diodes	3
Junction Box IP rating	IP 68
Max. series fuse rating	30 A
Max. system voltage (IEC/UL)	1500V _{oc}

Curve

Current-Voltage (505W)



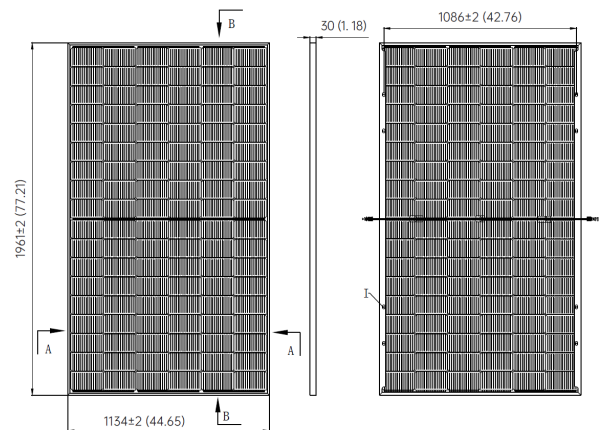
Power-Voltage (505W)



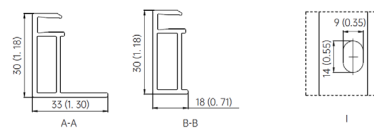
Mechanical specifications

Outer dimensions (L x W x H)	1961 x 1134 x 30 mm
Cell type	108 (182 x 105 mm), n type mono-crystalline, in a 2 x 6 x 9 matrix connected in series
No. of cells	108 (6*18)
Frame technology	Aluminum, silver anodized
Front / Back glass	Front / Back: 2.0 + 2.0 mm glass
Cable length (IEC/UL)	1200 mm
Cable diameter (IEC/UL)	4 mm ² / 12 AWG
① Max. mechanical test load	5400 Pa (front) / 2400 Pa (back)
Connector type (IEC/UL)	MC4-EVO2A
Operating temperature	-40°C to 85°C
Fire performance	Class C (UL 790)
Module weight	27.5 kg
Packing unit	36 pcs / box (Subject to sales contract)
Weight of packing unit	1045 kg
Modules per 40' HQ container	864 pcs

Solar panel



Frame cross section



① Refer to Autarco installation manual or contact technical department. Maximum Mechanical Test Load=1.5×Maximum Mechanical Design Load.

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