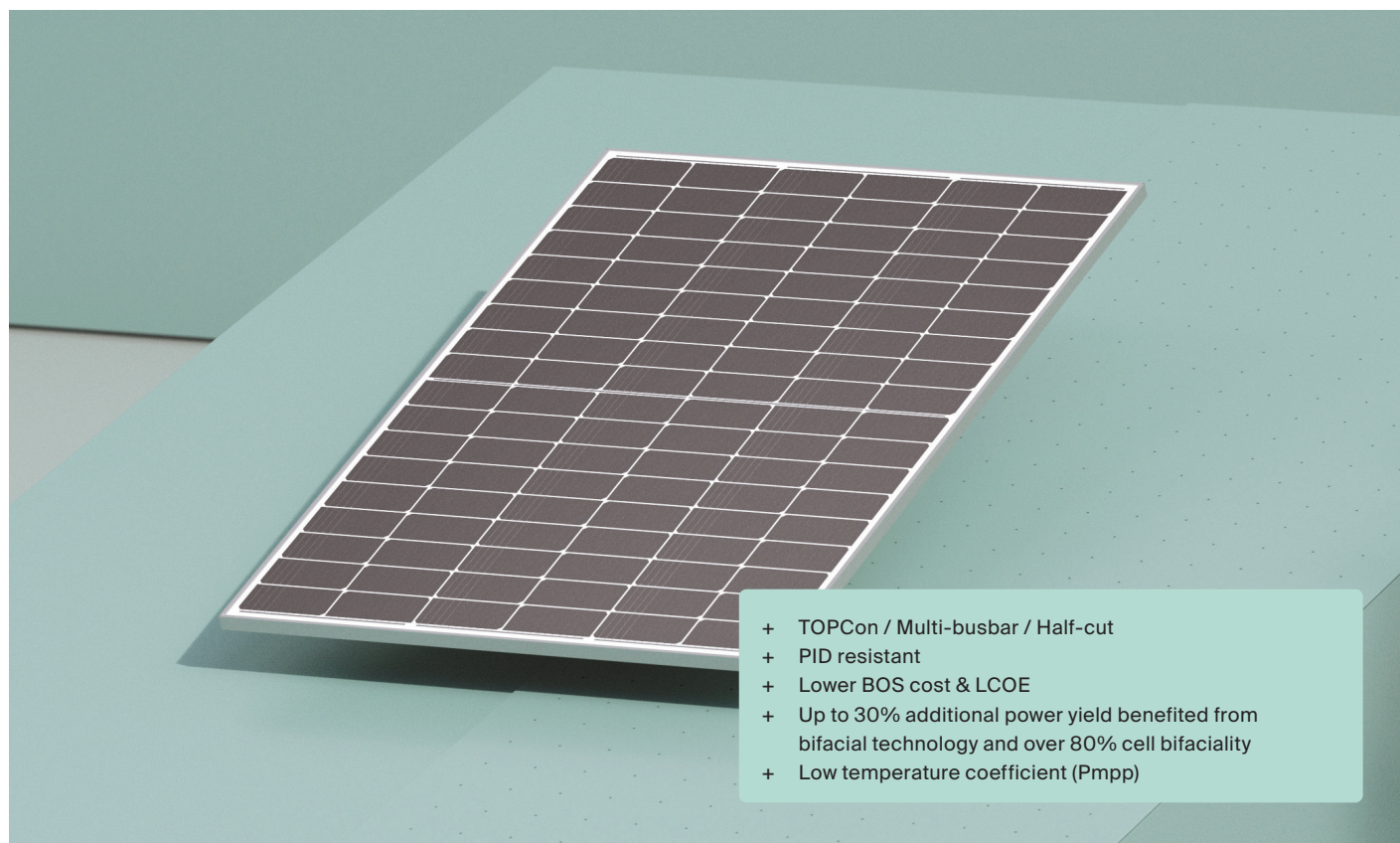


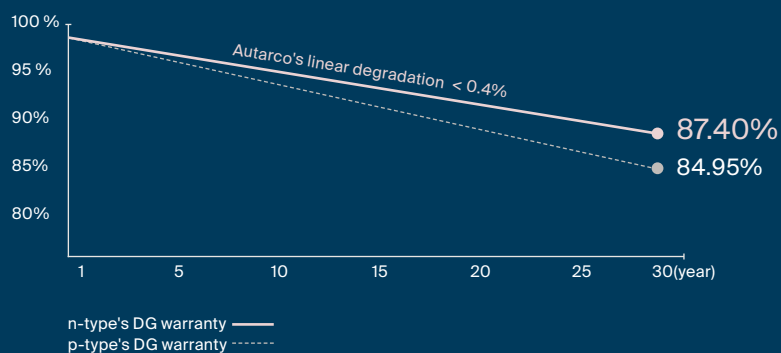
TBU

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)



25-year Product Warranty

30-year Linear Power Warranty

495~515Wp

Power Range

0~+3W

Power Sorting

23.2%

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 (P _{mpp} /Wp)	495	500	505	510	515
Open circuit voltage (V _{oc} /V)	40.72	40.89	41.05	41.21	41.37
Short circuit current (I _{sc} /A)	15.43	15.52	15.61	15.70	15.79
Rated voltage (V _{mpp} /V)	33.88	34.02	34.15	34.29	34.42
Rated current (I _{mpp} /A)	14.61	14.70	14.79	14.87	14.96
Module efficiency	22.3%	22.5%	22.7%	22.9%	23.2%

BNPI: Irradiance front 1000W/m², rear 135/m² Cell Temperature 25 °C, AM=1.5

Rated output (P _{mpp} /Wp)	545	550	555	560	565
Open circuit voltage (V _{oc} /V)	40.73	40.89	41.06	41.22	41.38
Short circuit current (I _{sc} /A)	17.16	17.24	17.33	17.41	17.50
Rated voltage (V _{mpp} /V)	33.89	34.02	34.16	34.29	34.43
Rated current (I _{mpp} /A)	16.08	16.17	16.25	16.33	16.41

Temperature ratings (STC)

Temp. coefficient (P _{mpp})	-0.29%/°C
Temp. coefficient (I _{sc})	+0.043%/°C
Tempe. coefficient (V _{oc})	-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 _{DC}

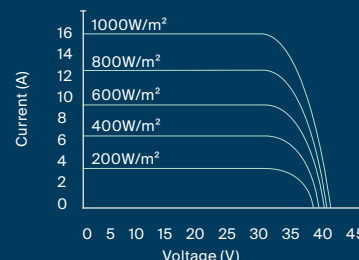
Mechanical specifications

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
S1.TBUxxx	Silver anodized
S1.TBUxxxBF	Black 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 A (IEC61215)
Module weight	27.4 kg
Packing unit	36 pcs / box (Subject to sales contract)
Weight of packing unit	1035 kg
Modules per 40' HQ container	864 pcs

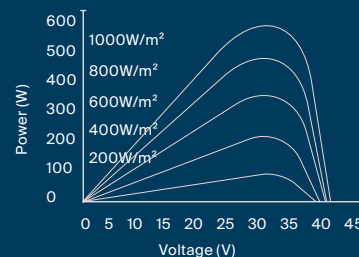
① Refer to Autarco installation manual or contact technical department.
Maximum Mechanical Test Load=1.5×Maximum Mechanical Design Load.

Curve

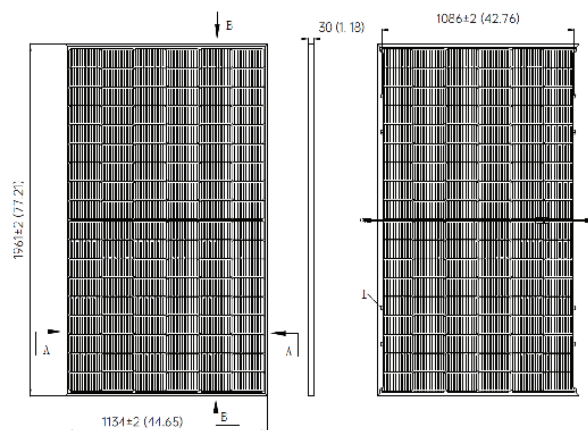
Current-Voltage (510W)



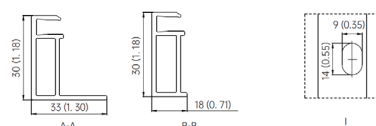
Power-Voltage (510W)



Solar panel



Frame cross section



© Autarco Group B.V. Reserves the right of final interpretation. Please contact our company to use the latest version for contract.