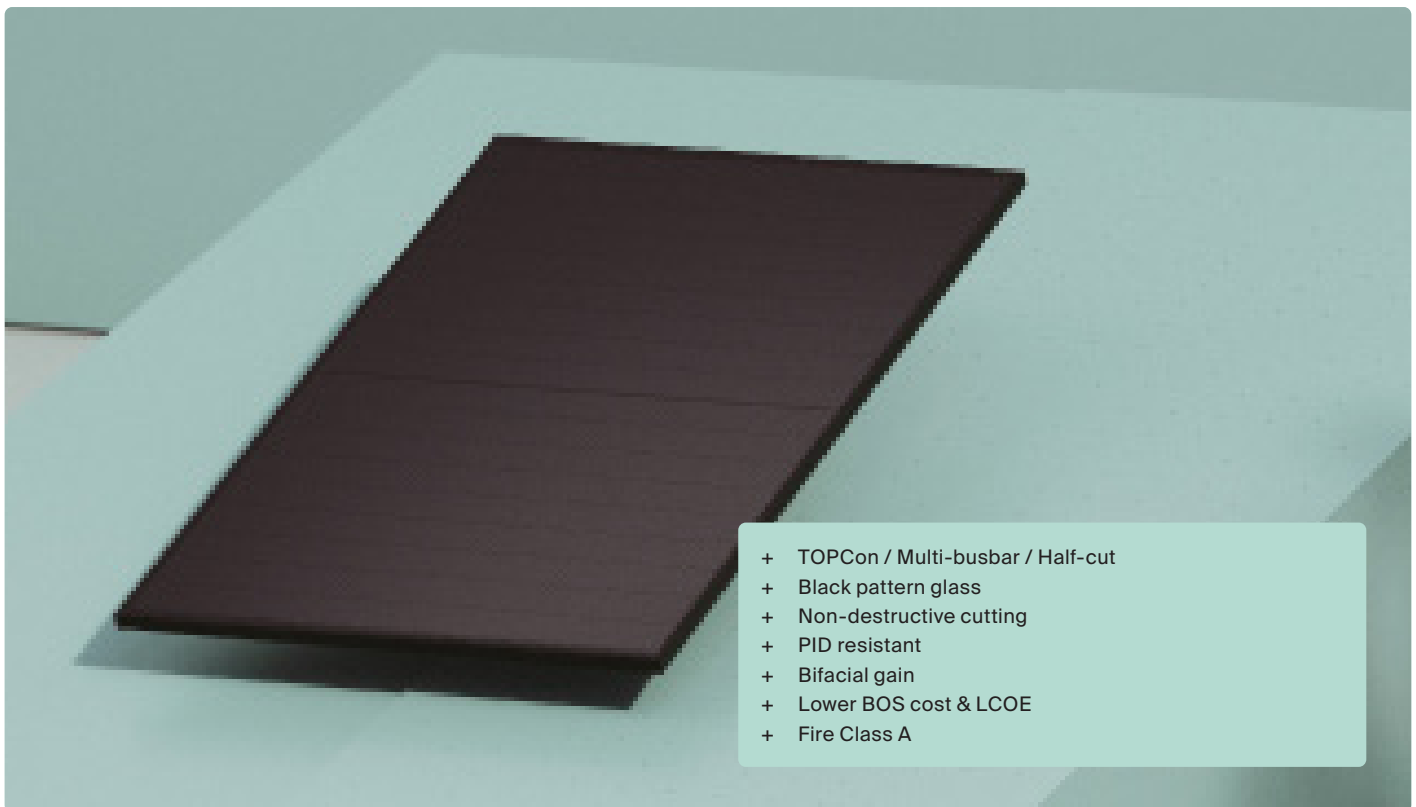


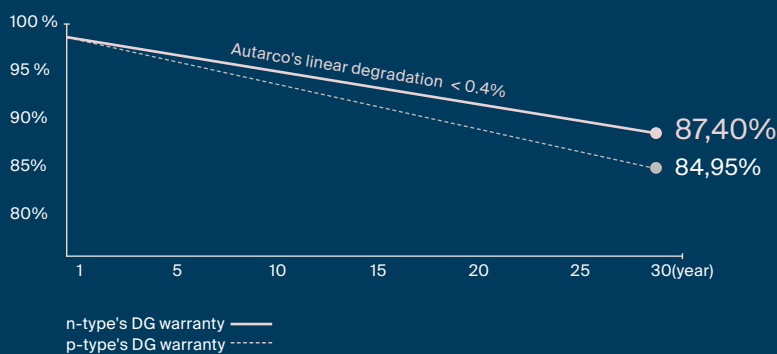
TBJ Full Black

Series solar panels

Reach full potential



- + TOPCon / Multi-busbar / Half-cut
- + Black pattern glass
- + Non-destructive cutting
- + PID resistant
- + Bifacial gain
- + Lower BOS cost & LCOE
- + Fire Class A



25-year Product Warranty

30-year Linear Power Warranty

420~440W

Power Range

0~+3W

Power Tolerance

22.53%

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 _{mp} / W _p)	420	425	430	435	440
Open circuit voltage (V _{oc} / V)	38.44	38.73	39.03	39.32	39.74
Short circuit current (I _{sc} / A)	13.83	13.89	13.95	14.04	14.11
Rated voltage (V _{mp} / V)	31.87	32.10	32.34	32.56	32.79
Rated current (I _{mp} / A)	13.18	13.24	13.30	13.36	13.42
Module efficiency	21.51%	21.76%	22.02%	22.28%	22.53%

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

Rated output (P _{mp} / W _p)	322	325	329	333	337
Open circuit voltage (V _{oc} / V)	36.81	37.08	37.37	37.65	37.93
Short circuit current (I _{sc} / A)	11.14	11.19	11.24	11.31	11.36
Rated voltage (V _{mp} / V)	30.30	30.52	30.74	30.95	31.17
Rated current (I _{mp} / A)	10.62	10.66	10.71	10.76	10.81

Temperature ratings

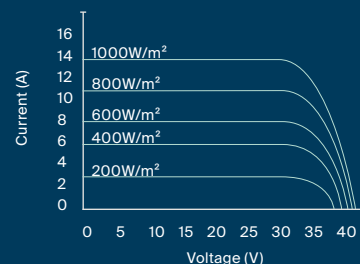
Temp. coefficient (P _{mp})	-0.29% / °C
Temp. coefficient (I _{sc})	+0.04% / °C
Tempe. coefficient (V _{oc})	-0.25% / °C
Nominal module operating temperature (NMOT)	42°C (+/- 2°C)

Operating parameters

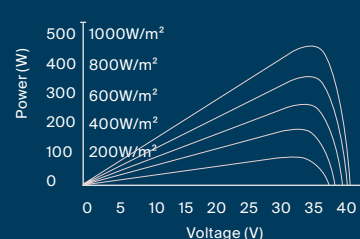
No. of diodes	3
Junction Box IP rating	IP 68
Max. series fuse rating	25 A
Max. system voltage (IEC/UL)	1500V _{DC}

Curve

Current-Voltage (430W)



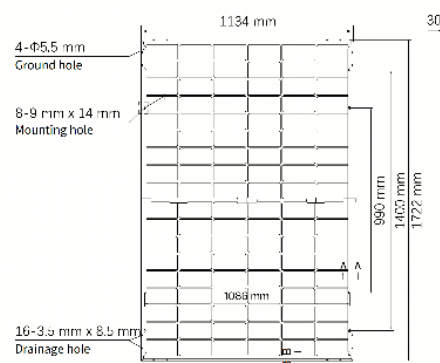
Power-Voltage (430W)



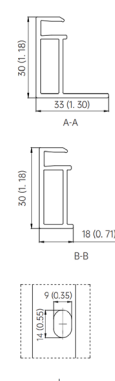
Mechanical specifications

Dimensions (W x H x D)	1722 x 1134 x 30mm
Cells	108 (182 x 91 mm), N type mono-crystalline, in a 6 x 18 matrix connected in series
Frame technology	Aluminum, silver anodized
Construction	
TBJ430B.1	Front: 1.6 mm glass (coated) Back: 1.6 mm glass (black pattern)
TBJ430B.2	Front: 2.0 mm glass (coated) Back: 2.0 mm glass (black pattern)
Cable length (IEC/UL)	1100-1200 mm
Cable diameter (IED/UL)	4 mm ² / 12 AWG
** Max. mechanical test load	5400 (front) / 2400 Pa (back)
Connector type (IEC/UL)	MC4-EVO2A
Operating temperature	-40°C to 85°C
Passed hail test	45mm hail @ 30.7m/s
Fire performance	Class A (IEC) or Type 2 (UL)
Module weight	
TBJ430B.1	21.0 kg
TBJ430B.2	24.3 kg
Packing unit	36 pcs / pallet
Weight of packing unit	
TBJ430B.1	793 kg
TBJ430B.2	912 kg
Quantity per 40'HQ container	936 pcs

Solar panel



Frame cross section



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

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Please contact our company to use the latest version for contract.