

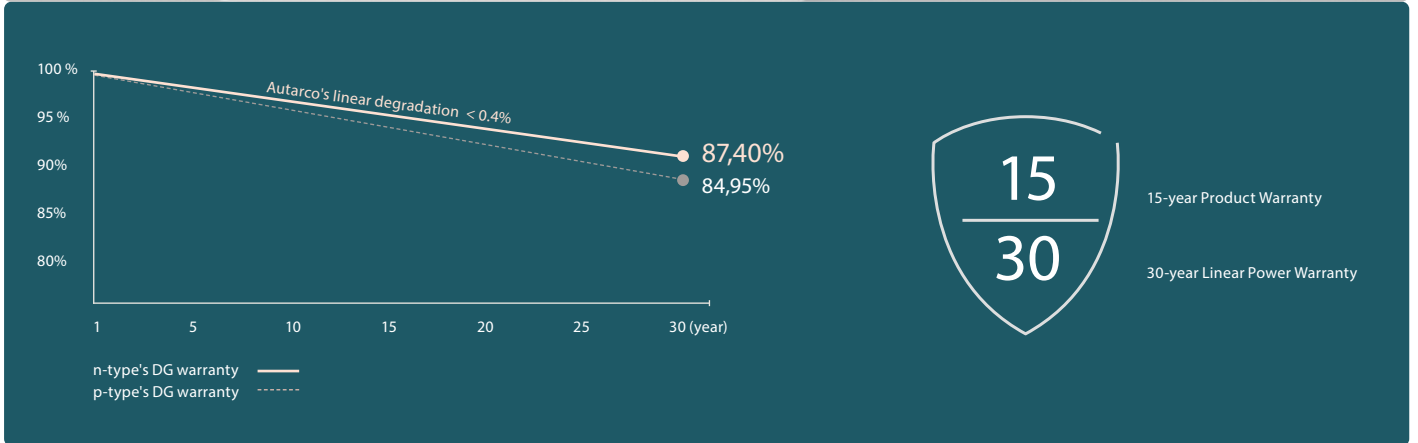
autarco

TBJ Series

405~420W

Rethink Solar
Reach your full potential

Glass-Glass Module
Bifacial Series 182



ISO 9001:2015:ISO Quality Management System
ISO 14001:2015:ISO Environment Management System
ISO 45001:Occupational Health and Safety



2022 Top Performance
PVEL

Tier 1
BloombergNEF



autarco.com

405~420W

Power Range

0~+5W

Power Tolerance

21.5%

Max Module Efficiency

≤ 0.4%

First Year Power Degradation

≤ 1.0%

Year 2-30 Power Degradation

Electrical Specification

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

Rated output (Pmpp / Wp)	405	410	415	420
Open circuit voltage (Voc / V)	37.10	37.30	37.50	37.70
Short circuit current (Isc / A)	13.68	13.79	13.90	14.01
Rated voltage (Vmpp / V)	31.18	31.34	31.51	31.68
Rated current (Impp / A)	12.99	13.08	13.17	13.26
Module efficiency	20.7%	21.0%	21.3%	21.5%

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

Rated output (Pmpp / Wp)	305	308	312	315
Open circuit voltage (Voc / V)	35.46	35.65	35.84	36.03
Short circuit current (Isc / A)	10.94	11.00	11.10	11.16
Rated voltage (Vmpp / V)	29.80	29.96	30.12	30.28
Rated current (Impp / A)	10.24	10.28	10.36	10.40

Electrical Specification (Integrated power)

Pmpp gain	5%	10%	15%	20%	25%
Pmpp / Wp	431	451	472	492	513
Vmpp / V	31.34	31.34	31.35	31.35	31.35
Impp / A	13.73	14.39	15.04	15.69	16.35
Voc / V	37.30	37.30	37.31	37.31	37.31
Isc / A	14.52	15.36	16.06	16.76	17.45

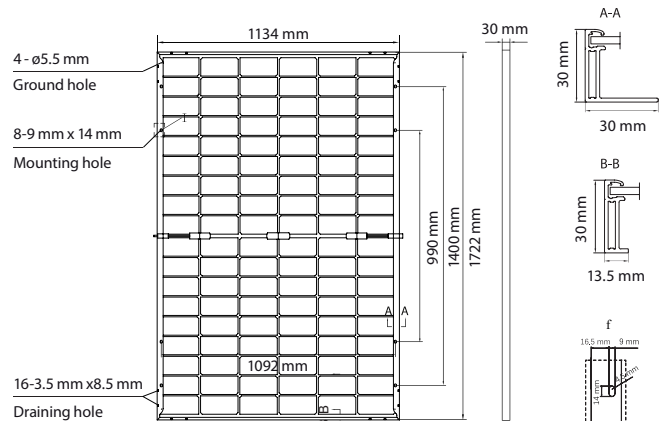
Temperature Ratings (STC)

Temperature coefficient (Pmpp)	-0.30%/°C	No. of diodes	3
Temperature coefficient (Isc)	+0.043%/°C	Junction box IP rating	IP 68
Temperature coefficient (Voc)	-0.24%/°C	Max. series fuse rating	30 A
Nominal module operating temperature (NMOT)	41±2°C	Max. system voltage (IEC/UL)	1500V _{DC}

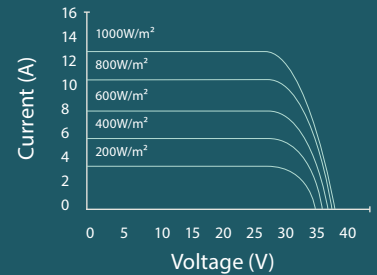
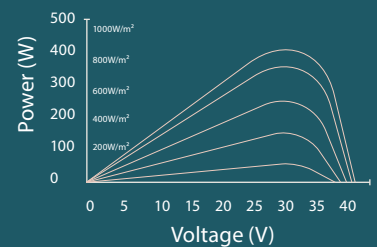
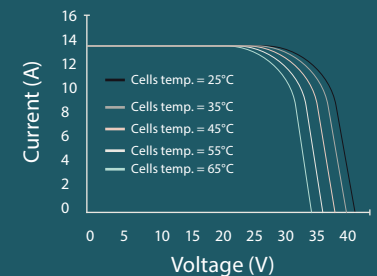
Operating parameters

Mechanical Specifications

Outer dimensions	1722 x 1134 x 30 mm
Cell Type	n-type Mono-crystalline
No. of cells	108 (6*18)
Frame technology	Aluminum, silver anodized
Front glass thickness	1.6+1.6 mm
Cable length (IEC/UL)	Portrait: 300 mm Landscape: 1200 mm
Cable diameter (IED/UL)	4 mm ² / 12 AWG
¹⁾ Maximum mechanical test load	5400 Pa (front) / 2400 Pa (back)
Connector type (IEC/UL)	HCB40 (Standard) / MC4-EVO2A (Optional)
Module weight	20.8 kg
Packing unit	36 pcs / box (Subject to sales contract)
Weight of packing unit	793 kg
Modules per 40' HQ container	936 pcs



Curve

Current-Voltage (410W)**Power-Voltage (410W)****Current-Voltage (410W)**

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

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