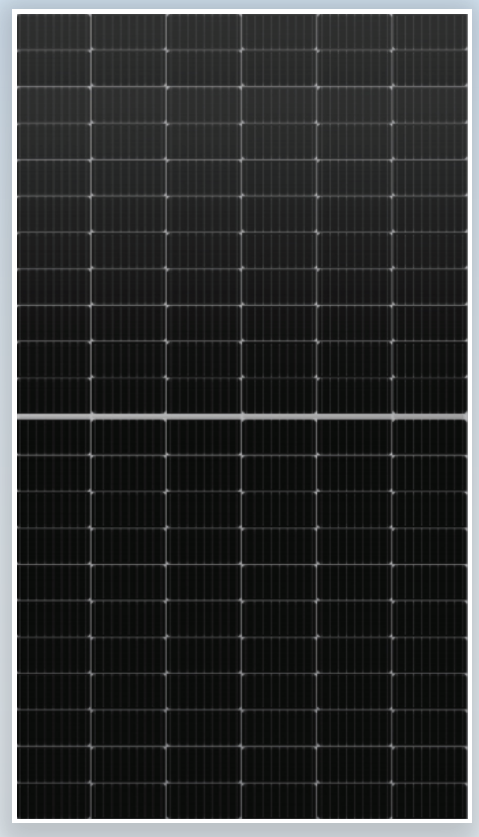
BM-TM Series | **BM182T-132HW**

BOAMAX

Single Glass Monocrystalline Module

BM 182T-132HW

Single glass series



Efficient bifacial Topcon monocrystalline silicon half-piece solar module

530 W
Maximum power output of module

22.32%
Maximum module efficiency

0~+5 W
Power tolerance

Boamax's long-term stable quality is trustworthy

- Automatic production line and leading photovoltaic technology
- Passed various long-term reliability tests
- EL testing is performed before and after lamination, effectively ensuring the reliability of the components.
- Strict international standard management systems are adopted, including ISO 9001, ISO 14001, and ISO 45001.

MBB welding strip design optimizes optical and electrical properties of modules

The adoption of dual glass POE packaging enables effective resistance to various harsh outdoor environments

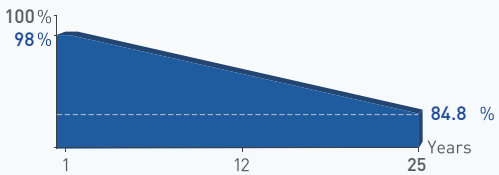
Additional safety brought by fire rating A

The battery slicing technology greatly reduces the series current and the internal damage of the modules, thus effectively reducing BOS and LCOE

Optimized packaging materials and strict process scheme ensure the PID resistance of modules

Advanced non-destructive slicing technology, with small battery damage and low impact of cracking

Industry leading linear warranty



12-year warranty on materials and process

25-year linear warranty

Excellent warranty, with a commitment to a 25-year power warranty and a linear power attenuation of 0.55%

BM-TM Series BM182T-132HW | Single Glass Monocrystalline Module | 510-530W

Electrical performance parameters STC

Power output	Pmax(W)	510	515	520	525	530
Operating voltage of maximum power point	Vmp(V)	38.74	38.91	39.08	39.24	39.41
Operating current of maximum power point	Imp(A)	13.17	13.24	13.31	13.38	13.45
Open-circuit voltage	Voc(V)	46.54	46.71	46.88	47.05	47.22
Short-circuit current	Isc(A)	14.12	14.15	14.18	14.21	14.24
Module efficiency	(%)	21.48	21.69	21.90	22.11	22.32
Power tolerance	(W)	0~+5				

*STC testing conditions: atmospheric quality AM1.5, irradiance 1000 W/m², cell temperature 25 °C

Electrical performance parameters NMOT

Power output	Pmax(W)	385	388	391	394	398
Operating voltage of maximum power point	Vmp(V)	36. 33	36.37	36.40	36.44	36.60
Operating current of maximum power point	Imp(A)	10.59	10.67	10.75	10.82	10.87
Open-circuit voltage	Voc(V)	44.20	44.36	44.52	44.69	44.85
Short-circuit current	Isc(A)	11.31	11.36	11.41	11.46	11.51

*NMOT testing conditions: irradiance 800 W/m² ambient temperature 20 °C, wind speed 1 m/s

Electrical performance parameters

Cell arrangement	132 pieces [6*22]
Module dimension	2094*1134*35mm
Weight	26.3kg
Front glass	3.2mm, high transparency coated glass
Back plate	White
Frame	Aluminum alloy with anode oxide film
Junction box	Protection level IP68
Cable	4mm², with a positive wire length of 300mm and a negative wire length of 300mm
Number of diodes	3
Wind pressure/snow pressure	2400Pa/5400Pa
Connector	PV-H4

Temperature characteristic

Nominal operating temperature of cell	45+2°C
Temperature coefficient (Isc)	+0.05%/C
Temperature coefficient (Voc)	-0.28%/C
Temperature coefficient (Pmax)	-0.34%/C

Limit parameters

Operating temperature	-40~+85°C
Maximum system voltage	1500V DC
Maximum rated current of fuse	25A

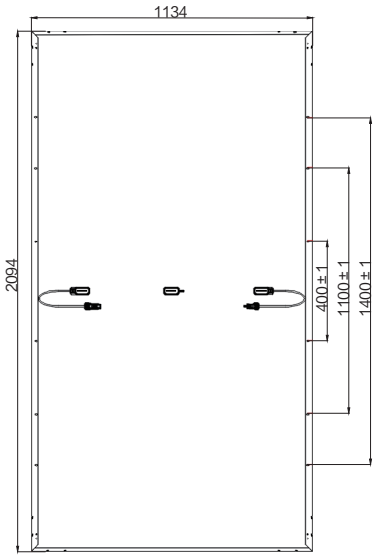
Packing method

Pieces per box	31 pieces
Loading capacity of 17.5 m flatbed trailer	992 pieces

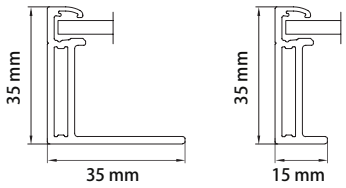
Optional configuration

Connector	Original PV

Module dimension

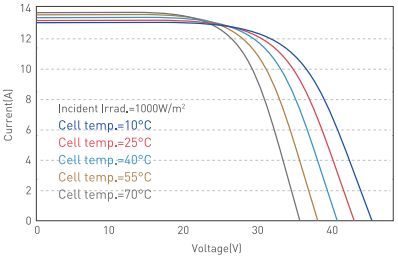


Rear view



Curve chart

Current and voltage curves at different temperatures (530W)



Current and voltage curves/power voltage curves at different irradiance (530W)