Stock code: 002514



Single Glass Monocrystalline Module

Single

182M-144HW

Efficient bifacial PERC monocrystalline silicon half cells PV module



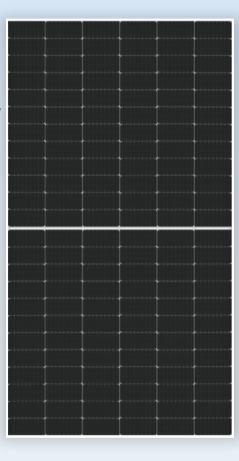
Maximum output power



Maximum efficiency



Power tolerance



Boamax's long-term stable quality is trustworthy

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



Multi-Busbar welding design, optimizes optical and electrical properties of modules



EVA sealing, enables effective resistance to various harsh environments



Fire-proof grade A, ensure more



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

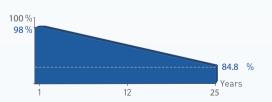


The cell slicing technology . Significantly reduces the string current, reduces the loss of internal conversion efficiency, and effectively reduces BOS and LCOE



Advanced non-destructive slicing technology, with small cell damage and reduce the risk of cracking

Industry leading linear warranty



12year Product Warranty 25year Power warranty

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







Peak Power	Pmax(W)	535	540	545	550	555
Maximum Power Voltage	Vmp(V)	41.50	41.70	41.90	42.10	42.30
Maximum Power Current	Imp(A)	12.89	12.95	13.01	13.06	13.13
Open Circuit Voltage	Voc(V)	49.40	49.60	49.80	50.00	50.20
Short Circuit Current	Isc(A)	13.75	13.80	13.86	13.92	13.98
Module efficiency	[%]	20.71	20.90	21.10	21.29	21.48
Power tolerance	(VV)			0~+5		

BM182M-144HW

Peak Power	Pmax(W)	404	408	412	416	419
Maximum Power Voltage	Vmp(V)	38.74	39.01	39.28	39.55	39.76
Maximum Power Current	Imp(A)	10.43	10.46	10.49	10.52	10.54
Open Circuit Voltage	Voc(V)	46.74	46.96	47.18	47.40	47.62
Short Circuit Current	Isc(A)	11.05	11.12	11.19	11.26	11.33

^{*}NMOT: irradiance 800 W/m2 ambient temperature 20 °C, wind speed 1 m/s

Number of Cells	144 pieces (6*24)
Module Dimension	2278*1134*30mm
Weight	27.6kg
Front Glass	3.2mm, high transparency coated glass
Rear Panel	White
Frame	Anodized Aluminum alloy
Junction Box	IP68 rated
Cable	4mm², 300mm in length, length can be customized
Number of Diodes	3
Wind Pressure/Snow Pressure	2400 Pa/5400 Pa
Connector	MC4

Temperature Characteristic

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

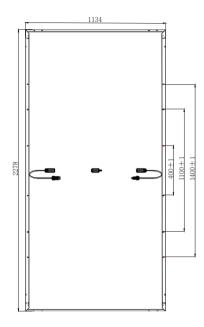
Operating temperature	-40~+85°C
Maximum system voltage	1500V DC
Maximum rated current of fuse	25A

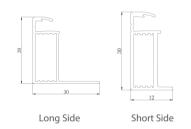
Packing

Modules per box	36 pieces
Modules per 40' container	720 pieces

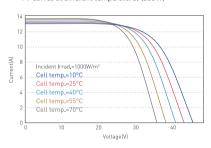
	Original PV
Connector	Original PV

Module

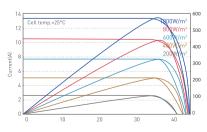




I-V curves at different temperatures (555W)



I-V curves/P-V curves at different irradiance (555W)



^{*}STC: atmospheric mass AM1.5, irradiance 1000 W/m2, cell temperature 25 °C