Stock code: 002514



Single Glass Monocrystalline Module

Single

# 182M-144HW

Efficient bifacial PERC monocrystalline silicon half cells PV module



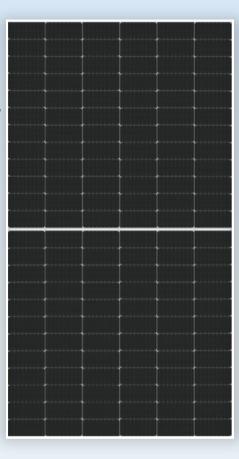
Maximum output power



Maximum efficiency



Power tolerance



# Boamax's long-term stable quality is trustworthy

• Automatic production line and leading photovoltaic technology

the reliability of the modules.

- EL testing is performed respectively before and after lamination, ensuring
- 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

resistance of modules



Optimized packaging materials and strict process scheme ensure the PID

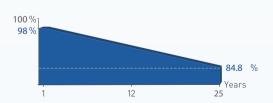


The cell slicing technology . Significantly reduces the string current, reduces the loss of internal conversion efficiency, and effectively reduces BOS and LCOE



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 degradation 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)	12.90	12.95	13.01	13.07	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	(W)			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

<sup>\*</sup>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*33mm
Weight	27.6kg
Front Glass	3.2mm, high transparency coated glass
Rear Panel	White
Frame	Anodized Aluminum alloy
Junction Box	IP68 rated
Cable	4mm <sup>2</sup> , 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	

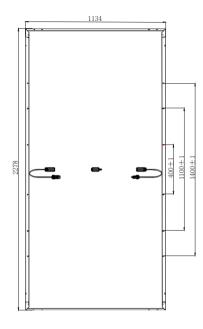
Operating temperature	-40~+85°C		
Maximum system voltage	1500V DC		
Maximum rated current of fuse	25A		

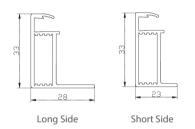
# **Packing**

Modules per box	33 pieces
Modules per 40' container	660 pieces

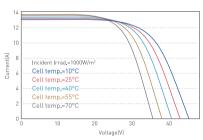
Connector	Original PV

## Module

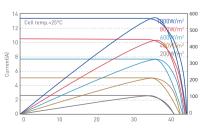




I-V curves at different temperatures (555W)



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



<sup>\*</sup>STC: atmospheric mass AM1.5, irradiance 1000 W/m2, cell temperature 25 °C