

BM182P-108DG

Bifacial Dual Glass Monocrystalline Module

ΒΟΛΜΛΧ

B P Dual glass series 182P-108DG

Efficient bifacial PERC monocrystalline silicon half-piece solar module



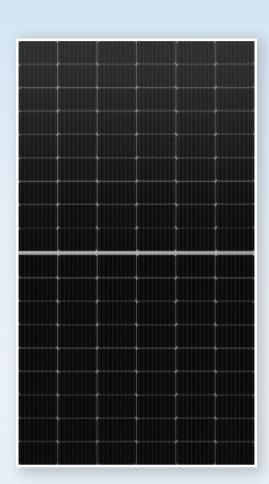
Maximum power output of module



Maximum module efficiency



Power tolerance



Boamax's long-term stable quality is trustworthy

- Automatic production line and leading photovoltaic technology
- EL testing is performed before and after lamination, effectively ensuring the reliability of the components.



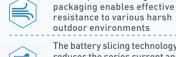
MBB welding strip design optimizes optical and electrical properties of modules



Additional safety brought by fire rating A

the PID resistance of modules

Optimized packaging materials and strict process scheme ensure



ISO 45001.

• Passed various long-term

• Strict international standard

management systems are adopted,

including ISO 9001, ISO 14001, and

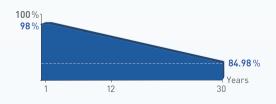
reliability tests

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

The adoption of dual glass POE

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

Industry leading linear warranty



12-year warranty on **30**-year linear warranty materials and process

Excellent warranty, with a commitment to a 30-year power warranty and a linear power attenuation of 0.45%



Bifacial Dual Glass Monocrystalline Module

395-420W

Electrical performance parameters STC

Power output	Pmax(W)	395	400	405	410	415	420
Operating voltage of maximum power point	Vmp(V)	30.32	30.42	30.52	30.62	30.79	30.95
Operating current of maximum power point	Imp(A)	13.03	13.15	13.27	13.39	13.48	13.57
Open-circuit voltage	Voc(V)	36.90	36.98	37.06	37.14	37.31	37.48
Short-circuit current	lsc(A)	13.71	13.78	13.85	13.92	14.01	14.08
Module efficiency	[%]	20.23	20.48	20.74	21.00	21.25	21.51
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)	298	301	305	308	312	315
Operating voltage of maximum power point	Vmp (V)	28.51	28.68	28.84	29.01	29.18	29.34
Operating current of maximum power point	Imp (A)	10.45	10.50	10.56	10.62	10.68	10.74
Open-circuit voltage	Voc(V)	34.46	34.66	34.86	35.06	35.26	35.46
Short-circuit current	Isc (A)	11.00	11.04	11.08	11.12	11.16	11.20

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

Electrical performance Bifacial power gain (taking back irradiation ratio of 10 % as an example) parameters Power output Pmax(W) 428 431 435 438 441 445 Operating voltage of maximum power point Operating current of maximum power point Vmp(V) 30.73 30.91 31.11 31.28 31.45 31.64 Imp(A) 13.93 13.95 13.98 14.01 14.04 14.08 Open-circuit voltage Voc(V) 36.52 36.73 36.93 37.14 37.35 37.56 Short-circuit current lsc(A) 14.73 14.79 14.91 14.61 14.67 14.85 Module efficiency [%] 21.92 22.09 22.26 22.44 22.60 22.81 Irradiation ratio sc(A) 10%

Electrical performance parameters

Temperature

characteristic

Temperature coefficient (Isc)

Temperature coefficient (Voc)

Packing

method

Loading capacity of 17.5 m flatbed trailer

Pieces per box

Temperature coefficient (Pmax)

Nominal operating temperature of cell 45+2°C

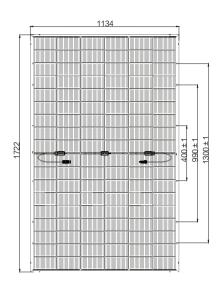
Cell arrangement	108 pieces (6*18)
Module dimension	1722*1134*30mm
Weight	26.0kg
Front glass	2.0mm, high transparency coated glass
Rear glass	2.0mm, semi-tempered glass
Frame	Aluminum alloy with anode oxide film
Junction box	Protection level IP68
Cable	4mm ² , with a positive wire length of 300mm and a negative wire length of 300mm
Number of diodes	3
Wind pressure/snow pressure	2400Pa/5400Pa
Connector	PV-H4

2400Pa/5	400Pa	
PV-H4		
	Limit parameters	
	Operating temperature	-40~+85°C
	Maximum system voltage	1500V DC

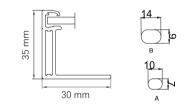
Maximum system voltage	1500V DC
Maximum rated current of fuse	30A





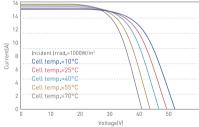




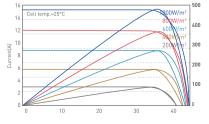


Curve chart

Current and voltage curves at different temperatures (420W)



Current and voltage curves/power voltage curves at different irradiance (420W)



Website: http://www.boamax.com Email: Businesses@boamax.com

In the event of any changes in product dimensions and specifications, the latest information shall prevail without prior notice.

+0.05%/C

-0.28%/C

-0.34%/C

31 pieces

1116 pieces