

# BM Dual glass series

## 182P-108DG

Efficient bifacial PERC monocrystalline silicon half cells PV module



**420 W**

Maximum output power



**21.51%**

Maximum efficiency



**0~+5W**

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 respectively before and after lamination, ensuring the reliability of the modules.
- 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



POE sealing, enables effective resistance to various harsh environments



Fire-proof grade A, ensure more safety



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

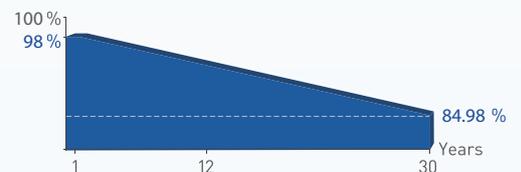


Optimized packaging materials and strict process scheme ensure the PID resistance of modules



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

### Industry leading linear warranty



**12**year Product Warranty **30**year Power warranty

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



Electrical Data (STC)

Peak Power	P <sub>max</sub> (W)	395	400	405	410	415	420
Maximum Power Voltage	V <sub>mp</sub> (V)	30.32	30.42	30.52	30.62	30.79	30.95
Maximum Power Current	I <sub>mp</sub> (A)	13.03	13.15	13.27	13.39	13.48	13.57
Open Circuit Voltage	V <sub>oc</sub> (V)	36.90	36.98	37.06	37.14	37.31	37.48
Short Circuit Current	I <sub>sc</sub> (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: atmospheric mass AM1.5, irradiance 1000 W/m<sup>2</sup>, cell temperature 25 °C

Electrical Data (NMOT)

Peak Power	P <sub>max</sub> (W)	298	301	305	308	312	315
Maximum Power Voltage	V <sub>mp</sub> (V)	28.51	28.68	28.84	29.01	29.18	29.34
Maximum Power Current	I <sub>mp</sub> (A)	10.45	10.50	10.56	10.62	10.68	10.74
Open Circuit Voltage	V <sub>oc</sub> (V)	34.46	34.66	34.86	35.06	35.26	35.46
Short Circuit Current	I <sub>sc</sub> (A)	11.00	11.04	11.08	11.12	11.16	11.20

\*NMOT: irradiance 800 W/m<sup>2</sup> ambient temperature 20 °C, wind speed 1 m/s

Electrical Data

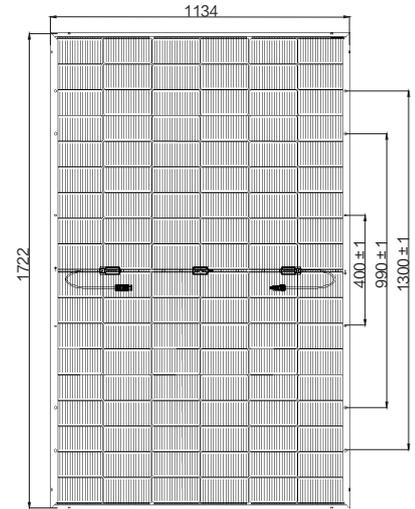
Bifacial power gain (reference to 10 % irradiance ratio)

Peak Power	P <sub>max</sub> (W)	428	431	435	438	441	445
Maximum Power Voltage	V <sub>mp</sub> (V)	30.73	30.91	31.11	31.28	31.45	31.64
Maximum Power Current	I <sub>mp</sub> (A)	13.93	13.95	13.98	14.01	14.04	14.08
Open Circuit Voltage	V <sub>oc</sub> (V)	36.52	36.73	36.93	37.14	37.35	37.56
Short Circuit Current	I <sub>sc</sub> (A)	14.61	14.67	14.73	14.79	14.85	14.91
Module Efficiency	(%)	21.92	22.09	22.26	22.44	22.60	22.81
Irradiation Ratio	sc(A)	10%					

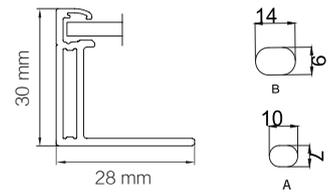
Structural Parameters

Number of Cells	108 pieces (6*18)
Module Dimension	1722*1134*30mm
Weight	26.0kg
Front Glass	2.0mm, High transmission coated glass
Back Glass	2.0mm, Semi-tempered glass
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

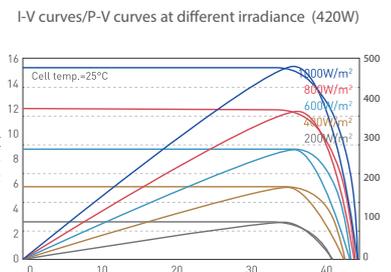
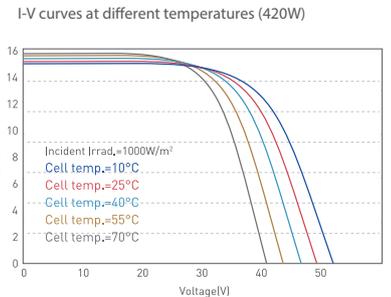
Module Dimension



Back View



Curve Chart



Temperature Characteristic

Nominal operating cell temperature	45±2°C
Temperature coefficient (I <sub>sc</sub> )	+0.05%/C
Temperature coefficient (V <sub>oc</sub> )	-0.28%/C
Temperature coefficient (P <sub>max</sub> )	-0.34%/C

Limit Parameters

Operating temperature	-40~+85°C
Maximum system voltage	1500V DC
Maximum rated current of fuse	30A

Packing Method

Modules per box	36 pieces
Modules per 40' container	936 pieces

Optional Configuration

Connector	<input type="checkbox"/> Original PV
-----------	--------------------------------------