BM-HP Series BM182H-144DG

Bifacial Dual Glass Monocrystalline Module

Dual glass series 182H-144DG

Efficient bifacial HJT monocrystalline silicon half-piece solar module



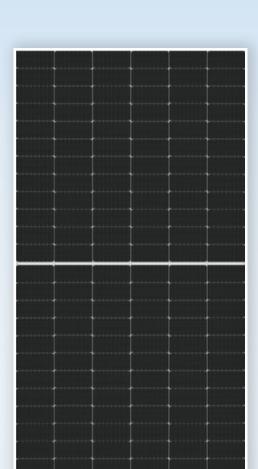
Maximum power output of module



Maximum module efficiency



Power tolerance



ΒΟΛΜΛΧ

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



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



 Strict international standard management systems are adopted, including ISO 9001, ISO 14001, and 150 45001.





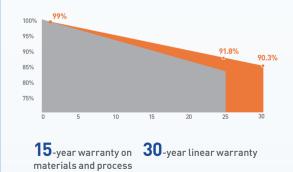
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The battery slicing technology greatly reduces the series current and the internal damage of the modules, thus effectively reducing BOS and LCOE



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

Industry leading linear warranty



The attenuation in the first year is 1%, and from the second year onwards, the annual attenuation does not exceed 0.30%.



Electrical performance parameters STC

Power output	Pmax(W)	560	565	570	575	580	585
Operating voltage of maximum power point	Vmp(V)	41.95	42.14	42.29	42.44	42.59	42.74
Operating current of maximum power point	lmp(A)	13.35	13.41	13.48	13.55	13.62	13.69
Open-circuit voltage	Voc(V)	50.67	50.87	51.07	51.27	51.47	51.67
Short-circuit current	lsc(A)	14.13	14.19	14.25	14.31	14.37	14.43
Module efficiency	[%]	21.68	21.87	22.07	22.26	22.45	22.65
Power tolerance	(W)	••••••			0~+5		

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

Electrical performance parameters NMOT

Power output	Pmax(W)	421	425	429	432	436	440
Operating voltage of maximum power point	Vmp(V)	39.39	39.52	39.65	39.78	39.87	39.96
Operating current of maximum power point	lmp(A)	10.69	10.75	10.82	10.86	10.94	11.01
Open-circuit voltage	Voc(V)	48.13	48.32	48.51	48.7	48.89	49.08
Short-circuit current	Isc(A)	11.41	11.46	11.51	11.56	11.61	11.66

*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) 620 625 630 635 640 645 Operating voltage of maximum power point Operating current of maximum power point Vmp(V) 44.16 44.37 44.58 44.79 45 45.21 Imp(A) 14.27 14.07 14.11 14.15 14.19 14.23 Open-circuit voltage Voc(V) 53.42 53.62 52.62 52.82 53.02 53.22 Short-circuit current Isc(A) 14.77 14.57 14.61 14.65 14.69 14.73 Module efficiency [%] 24.00 24.19 24.39 24.58 24.77 24.97 Irradiation ratio sc[A]

10%

Electrical performance parameters

Cell arrangement	144 pieces [6*24]		
odule dimension 2278*1134*30mm			
Weight	32.0kg		
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	4mm², with a positive wire length of 300mm and a negative wire length of 300mm		
Number of diodes	3		
Wind pressure/snow pressure	2400 Pa/5400 Pa		
Connector	PV-H4		

Temperature characteristic

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

Packing method

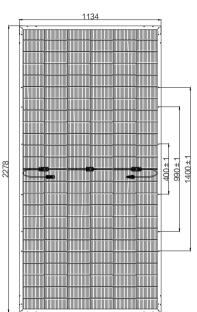
Pieces per box	36 pieces
Loading capacity of 17.5 m flatbed trailer	864 pieces



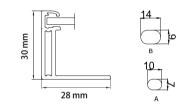
Operating temperature	-40~+85°C	
Maximum system voltage	1500V DC	
Maximum rated current of fuse	30A	





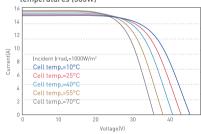


Rear view

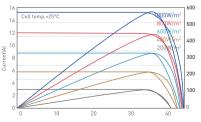


Curve chart

Current and voltage curves at different temperatures (585W)



Current and voltage curves/power voltage curves at different irradiance (585W)



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