Stock code: 002514

BOAMAX

BM-HM Series | BM 210H-100DG

Bifacial Dual Glass Monocrystalline Module

BM 210H-100DG

Dual glass series

Efficient bifacial HJT monocrystalline silicon half cells PV module

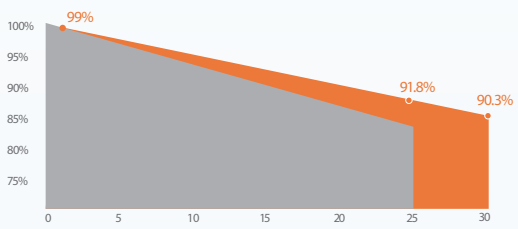
535W	22.35%	0~+5 W
Maximum output power	Maximum efficiency	Power tolerance

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



15year Product Warranty 30year Power warranty

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

BM-HM Series BM210H-100DG | Bifacial Dual Glass Monocrystalline Module | 510-535W

Electrical Data (STC)

Peak Power	Pmax(W)	510	515	520	525	530	535
Maximum Power Voltage	Vmp(V)	31.23	31.43	31.62	31.80	31.99	32.18
Maximum Power Current	Imp(A)	16.34	16.39	16.45	16.51	16.57	16.63
Open Circuit Voltage	Voc(V)	37.27	37.48	37.67	37.86	38.05	38.24
Short Circuit Current	Isc(A)	17.13	17.19	17.25	17.31	17.37	17.43
Module Efficiency	(%)	21.31	21.52	21.72	21.93	22.14	22.35
Power Tolerance	(W)	0~+5					

*STC : atmospheric mass AM1.5, irradiance 1000 W/m², cell temperature 25 ℃

Electrical Data (NMOT)

Peak Power	Pmax(W)	385	387	390	393	395	397
OMaximum Power Voltage	Vmp(V)	29.35	29.44	29.52	29.60	29.68	29.77
Maximum Power Current	Imp(A)	13.10	13.16	13.21	13.27	13.31	13.34
Open Circuit Voltage	Voc(V)	35.32	35.45	35.57	35.70	35.82	35.96
Short Circuit Current	Isc(A)	14.53	14.57	14.61	14.65	14.69	14.73

*NMOT : irradiance 800 W/m² ambient temperature 20 ℃, wind speed 1 m/s

Electrical Data — Bifacial power gain (reference to 10 % irradiance ratio)

Peak Power	Pmax(W)	558	563	567	572	576	580
Maximum Power Voltage	Vmp(V)	31.20	31.32	31.44	31.55	31.67	31.78
Maximum Power Current	Imp(A)	17.89	17.97	18.05	18.13	18.18	18.24
Open Circuit Voltage	Voc(V)	37.26	37.38	37.50	37.61	37.73	37.86
Short Circuit Current	Isc(A)	18.23	18.3	18.37	18.44	18.51	18.58
Module Efficiency	(%)	23.32	23.51	23.70	23.90	24.05	24.21
Irradiation Ratio	sc(A)	10%					

Structural Parameters

Number of Cells	100 pieces (5*20)
Module Dimension	2184*1096*35mm
Weight	30.3kg
Front Glass	2.0mm, High transmission coated glass
Back Glass	2.0mm, Semi-tempered glass
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
Connectorr	MC4

Temperature Characteristic

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

Limit Parameters

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

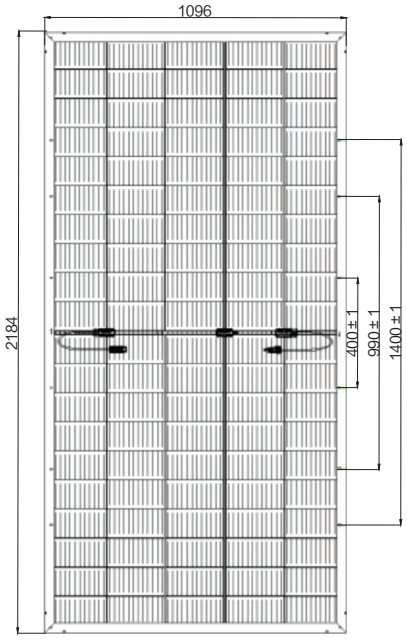
Packing Method

Modules per box	31 pieces
Modules per 40′ containerr	620 pieces

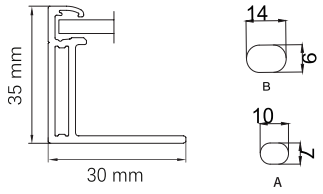
Optional Configuration

Connector	Original PV

Module Dimension

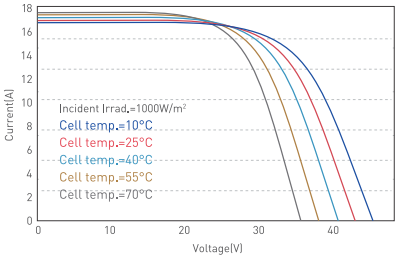


Back View



Curve Chart

I-V curves at different temperatures (535W)



I-V curves/P-V curves at different irradiance (535W)