BM-TM Series

BM182T-120HW

Single Glass Monocrystalline Module



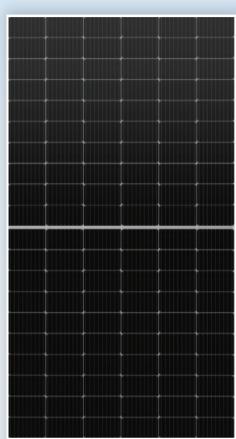
Efficient bifacial Topcon monocrystalline silicon half cells PV module





Maximum efficiency





Stock code: 002514

ΒΟΛΜΛΧ

Boamax's long-term stable quality is trustworthy

- Automatic production line and leading photovoltaic technology
- EL testing is performed respectively before and after lamination, ensuring the reliability of the modules.
- Passed various long-term reliability tests
- Strict execute international standard management systems, including ISO
 - management systems, including ISC 9001, ISO 14001, and ISO 45001.

ments



Multi-Busbar welding design, optimizes optical and electrical properties of modules



Fire-proof grade A, ensure more safety



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



of internal conversion efficiency, and effectively reduces BOS and LCOE Advanced non-destructive slicing technology, with small cell damage and

The cell slicing technology .Significantly

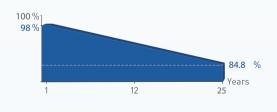
reduces the string current, reduces the loss

EVA sealing, enables effective

reduce the risk of cracking

resistance to various harsh environ-

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 attenuation of 0.55%



BM182T-120HW

Single Glass Monocrystalline Module

460-480W

Electrical Data (STC)

Peak Power	Pmax(W)	460	465	470	475	480
Maximum Power Voltage	Vmp(V)	35.22	35.37	35.52	35.68	35.83
Maximum Power Current	Imp(A)	13.06	13.15	13.23	13.31	13.40
Open Circuit Voltage	Voc(V)	42.31	42.46	42.62	42.77	42.92
Short Circuit Current	lsc(A)	13.87	13.95	14.03	14.11	14.19
Module Efficiency	[%]	21.32	21.55	21.78	22.01	22.24
Power Tolerance	[W]			0~+5		

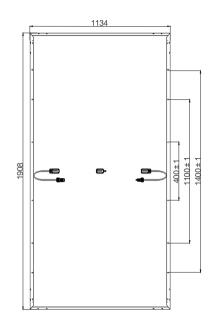
*STC : atmospheric mass AM1.5, irradiance 1000 W/m², cell temperature 25 °C

lectrical Data (NMOT)

Peak Power	Pmax(W)	350	353	356	359	362
Maximum Power Voltage	Vmp(V)	33.03	33.06	33.09	33.13	33.27
Aaximum Power Current	Imp(A)	10.59	10.67	10.75	10.82	10.87
Open Circuit Voltage	Voc(V)	40.18	40.33	40.48	40.62	40.77
Short Circuit Current	lsc(A)	11.31	11.36	11.41	11.46	11.51

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

Module Dimension



Structural Parameters

Number of Cells	120 pieces (6*20)
Module Dimension	
Weight	25.1kg
Front Glass	3.2mm, high transparency coated glass
Rear Panel	White
Frame	Anodized Aluminum alloy
Junction Box	IP68 rated
Cable	4mm ² , 300mm in length , length can be customized
Number of Diodes	3
Wind Pressure/Snow Pressure	2400 Pa/5400 Pa
Connector	MC4

Temperature Characteristic

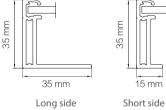
Nominal operating cell temperature	45+2°C
Temperature coefficient (lsc)	+0.05%/C
Temperature coefficient (Voc)	-0.28%/C
Temperature coefficient (Pmax)	-0.34%/C

-40~+85°C
1500V DC
25A

Packing Method Modules per box 31 pieces Modules per 40' container 744 pieces

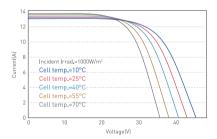
Optional Configuration		
Confiduration		
Junig		
Connector	Original PV	



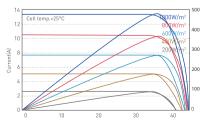




I-V curves at different temperatures(480W)



I-V curves/P-V curves at different irradiance (480W)



Website: http://www.boamax.com Email: Sales@Boamax.com

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