



DHM-54X10/BF/FS(BB)

400~410W

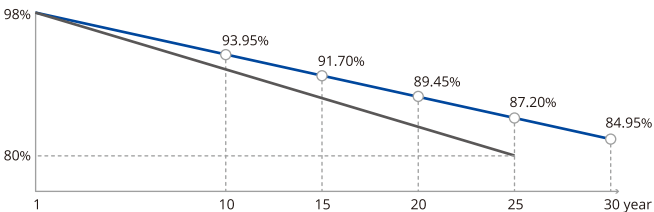
BIFACIAL

Full Screen PV Module

No Dust and Dirt on the Surface Increases Power Generation

Quality Guarantee

12-year Material & technology warranty
30-year Linear power output warranty



▲ DAH Solar linear power output guarantee
■ Standard linear power output guarantee

Comprehensive Products & System Certificates



IEC 61215 / IEC 61730 / CE / FIDE / INMETRO
ISO 45001 : 2018/International standards for occupational health & safety
ISO 14001 : 2015/Standards for environmental management system
ISO 9001 : 2015/Quality management system



No Water & Dust Accumulation, Increases Power Generation by 6-15%

Full-Screen PV Module has front frameless design, which decreases power loss and the O&M expenditures caused by the bottom dust shading.



Up to 25% Power Generation Growth From Rear Side

The transparent grid backplane is used to harvest the sunlight reflection, which significantly improves the total power generation.



Applied to All Mounting Scenarios

Full-Screen PV Module could apply to all the application scenarios, and the smaller angles of inclination, the higher power generation.



Preeminent Weather Resistance

Certified by Dust-Sand Test, Salt Spray Test, Ammonia Test, which allows the module to ensure an excellent performance under the extreme weather conditions.



±0.1mm Production Accuracy Technology

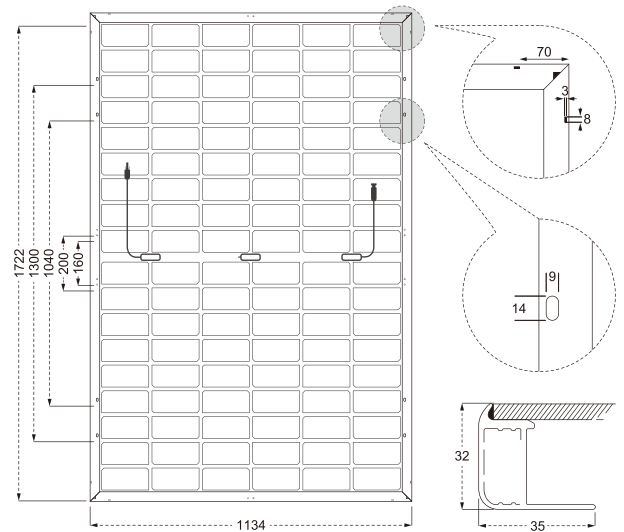
Using excellent frame sealing technology makes the production accuracy achieve ±0.1mm to ensure the IP68 Waterproof and the mechanical load (front side: 5400Pa; back side: 2400Pa). The ruggedness could compare with the architectural curtain wall.



Mechanical Specification

Cable	4.0mm ² , 350/250mm in length,
(Including connector)	length can be customized
No.of Cells	108 (6×18)
Glass	3.2mm High Transmission, Antireflection Coating
Junction box	IP68, 3 Bypass Diodes
Connector	MC4 Compatible
Weight	22kg
Cells Type	Mono 182×91mm
Dimension (L×W×T)	1722×1134×32mm
Packing	34pcs/pallet, 884pcs/40HQ

Design



Operating Parameters

Maximum system voltage	1500V DC
Operating Temperature	-40 ~ +85°C
Maximum series fuse rating	30A
Snow load, frontside/Wind load, backside	5400Pa/2400Pa
Nominal operating cell temperature	45°C±2°C
Application level	Class A

Electrical Characteristics

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Module Type	STC		Noct		STC		Noct		STC		Noct	
	Maximum Power (Pmax)	400W	298W	405W	301W	410W	305W	37.0V	34.71V	37.2V	34.89V	37.2V
Open-circuit Voltage (Voc)	36.8V	34.52V	37.0V	34.71V	37.2V	34.89V	31.3V	29.36V	31.5V	29.55V	31.7V	29.73V
Maximum Power Voltage (Vmp)	31.3V	29.36V	31.5V	29.55V	31.7V	29.73V	13.48A	10.89A	13.54A	10.94A	13.60A	10.99A
Short-circuit Current (Isc)	13.48A	10.89A	13.54A	10.94A	13.60A	10.99A	12.77A	10.14A	12.86A	10.20A	12.93A	10.26A
Maximum Power Current (Imp)	12.77A	10.14A	12.86A	10.20A	12.93A	10.26A	20.48%		20.74%		21.00%	
Module Efficiency (STC)	20.48%		20.74%		21.00%							

STC: Standard Test Environment : Irradiance 1000W/m², Cell temperature 25°C, Spectrum AM1.5

NOCT: Standard Test Environment : Irradiance 800W/m², Ambient temperature 20°C, Spectrum AM1.5, Wind speed 1m/s

Refer Bifacial Factor: 70±5%

Temperature Coefficient of Voc: -0.31%/°C

Temperature Coefficient of Isc: 0.05%/°C

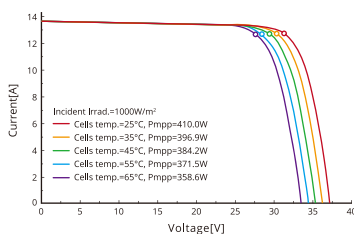
Temperature Coefficient of Pmax: -0.35%/°C

Double-sided power generation parameters (Rear gain)

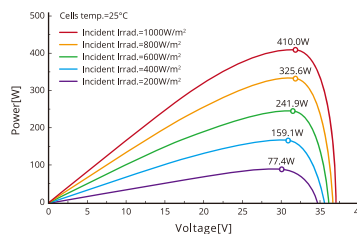
5%	Maximum Power (Pmax)	420W	425W	431W
	Module Efficiency (%)	21.51%	21.78%	22.05%
15%	Maximum Power (Pmax)	460W	466W	472W
	Module Efficiency (%)	23.56%	23.85%	24.15%
25%	Maximum Power (Pmax)	500W	506W	513W
	Module Efficiency (%)	25.60%	25.93%	26.25%

I-V Curve DHM-54X10/BF/FS(BB)-410W

Current-Voltage Curve



Power-Voltage Curve



Current-Voltage Curve

