DAH Solar
www.dahsolarpv.com

Europe Solar Production

GLOBAL PATENTS

DHM-54X10/BF/FS(BB)

400~410W

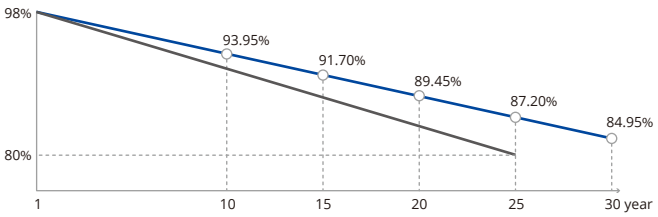
BIFACIAL

Full Screen PV Module

No Dust and Dirt on the Surface Increase 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

Up to 20% generation gain from the rear-side
The grid line transparent back sheet increases the back reflection, and the power generation gain increases with the back light

More than 25% module weight lighter
Compared with the dual glass module, the weight is reduced by 25%, which is easy to install and save the cost of BOS

Higher generation efficiency and stability
Low current, low hotspot and better low-irradiance performance, more stable power generation

Longer power output life span
Anti PID, low acetic acid concentration, ensure the module linear power output for 30 years

Strong environmental adaptability
Certified by Dust-Sand, Salt-Mist, Ammonia etc. weather resistance tests

Select Grade A crystalline silicon solar cells
Grade A crystalline silicon solar cells make high-power output with cost-effective

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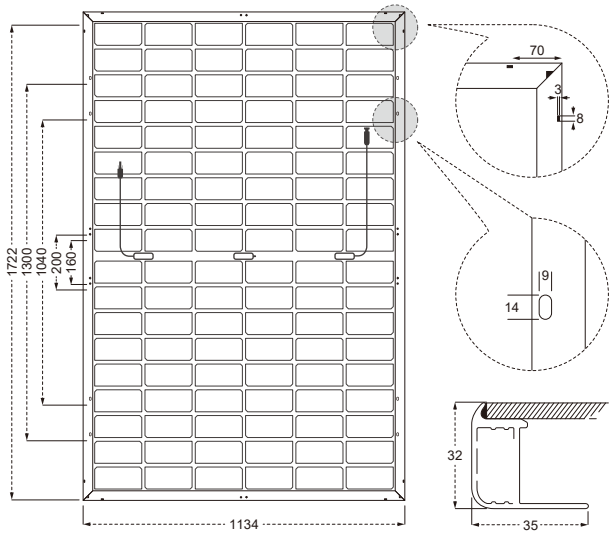
Mechanical Specification

Cable	4.0mm², 300/400mm 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

	DHM-54X10/BF/FS(BB)					
Module Type	**STC**	Noct	**STC**	Noct	**STC**	Noct
Maximum Power (Pmax)	400W	298W	405W	301W	410W	305W
Open-circuit Voltage (Voc)	36.8V	34.52V	37.0V	34.71V	37.2V	34.89V
Maximum Power Voltage (Vmp)	31.3V	29.36V	31.5V	29.55V	31.7V	29.73V
Short-circuit Current (Isc)	13.48A	10.89A	13.54A	10.94A	13.60A	10.99A
Maximum Power Current (Imp)	12.77A	10.14A	12.86A	10.20A	12.93A	10.26A
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

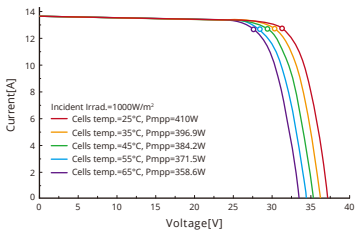
Refer Bifacial Factor: 70±5%
Temperature Coefficient of Isc: 0.05%/°C
Temperature Coefficient of Voc: -0.31%/°C
Temperature Coefficient of Pmax: -0.35%/°C

Double-sided power generation parameters (Rear gain)

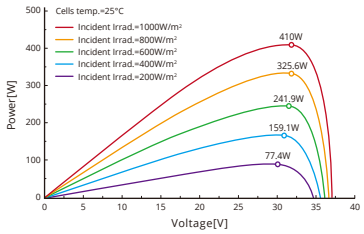
5%	*Maximum Power (Pmax)*	420W	425W	431W
	Module Efficiency (%)	21.51%	21.78%	22.05%
15%	*Maximum Power (Pmax)*	460W	466W	472W
	Module Efficiency (%)	23.56%	23.85%	24.15%
25%	*Maximum Power (Pmax)*	500W	506W	513W
	Module Efficiency (%)	25.60%	25.93%	26.25%

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

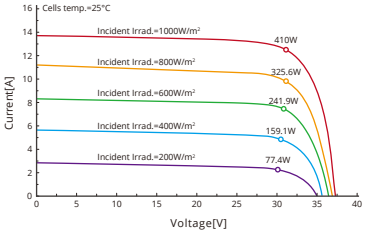
Current-Voltage Curve



Power-Voltage Curve



Current-Voltage Curve



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