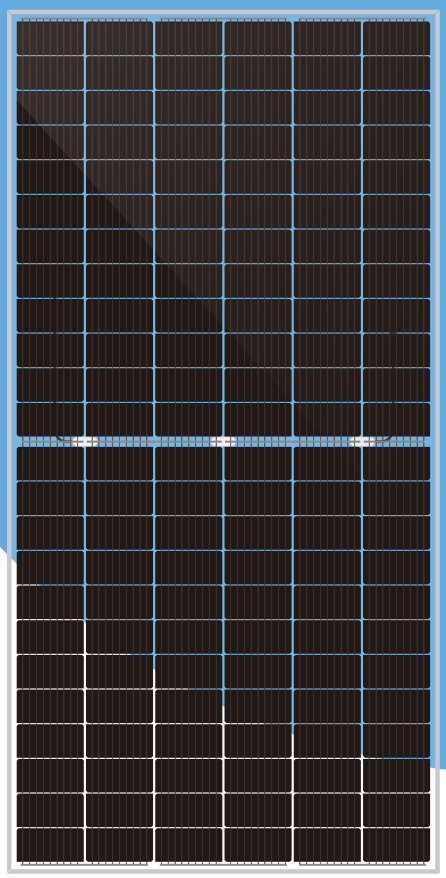
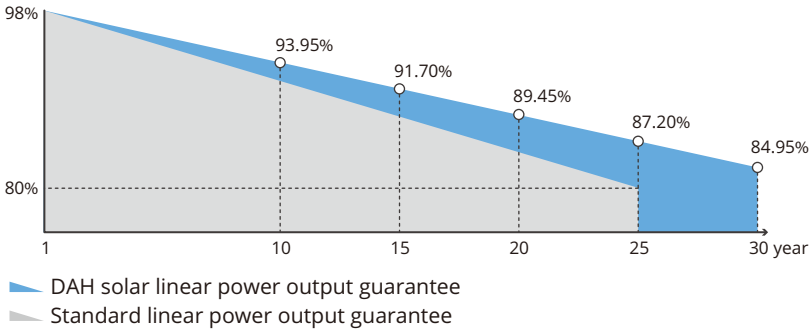
DHM-72L9/BF

Bifacial Half-cell High Efficiency PV Module



Quality Guarantee

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



435~465 W

0 ~ +5W

Max Module Efficiency - 21.39%

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

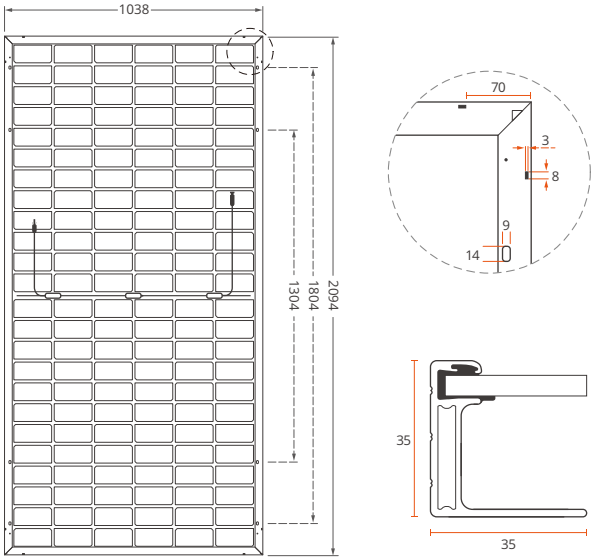
Select Grade A crystalline silicon solar cells
Grade A crystalline silicon solar cells make high-power output with cost-effective

Comprehensive Products and System Certificates

IEC 61215 / IEC 61730 / CE / INMETRO
ISO 9001-
2015/Quality management system
ISO 14001-
2015/Standards for environmental management system
OHSAS 18001-
2007/International standards for occupational health & safety

DHM-72L9/BF **435~465W**

Design



Mechanical Specification

Cells Type	**Dimension (L×W×T)**
Mono 166×83mm	**2094×1038×35mm**
Weight	**Packing**
24kg	**31pcs/pallet, 682pcs/40HQ**
Cable (Including connector)	4.0mm², Portrait: 300mm(+)/400mm(-) Landscape: 1400mm(+)/1400mm(-)
No.of Cells	144 (6×24)
Glass	3.2mm High Transmission, Antireflection Coating
Junction box	IP68, 3 Bypass Diodes
Connector	MC4 Compatible

Operating Parameters

Maximum system voltage	1500V DC
Operating Temperature	-40 ~ +85°C
Maximum series fuse rating	25A
Snow load, frontside	5400Pa
Wind load, backside	2400Pa
Nominal operating cell temperature	45°C±2°C
Application level	Class A

Electrical Characteristics

DHM-72L9/BF													
Module Type	**STC**	Noct	**STC**	Noct	**STC**	Noct	**STC**	Noct	**STC**	Noct	**STC**	Noct	**STC**	Noct
Maximum Power (Pmax)	435W	324W	440W	327W	445W	331W	450W	335W	455W	339W	460W	342W	465W	346W
Open-circuit Voltage (Voc)	48.85V	45.82V	49.00V	45.96V	49.15V	46.10V	49.30V	46.24V	49.45V	46.38V	49.60V	46.52V	49.75V	46.67V
Maximum Power Voltage (Vmp)	41.66V	39.08V	41.81V	39.22V	41.96V	39.36V	42.11V	39.50V	42.26V	39.64V	42.41V	39.78V	42.56V	39.92V
Short-circuit Current (Isc)	11.26A	9.10A	11.29A	9.12A	11.32A	9.15A	11.35A	9.17A	11.38A	9.20A	11.41A	9.22A	11.44A	9.24A
Maximum Power Current (Imp)	10.44A	8.28A	10.52A	8.35A	10.61A	8.41A	10.69A	8.48A	10.77A	8.54A	10.85A	8.60A	10.93A	8.67A
Module Efficiency (STC)	20.01%		20.24%		20.47%		20.70%		20.93%		21.16%		21.39%	

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

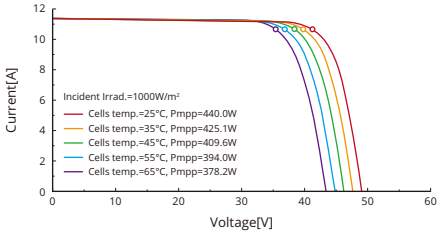
Refer Bifacial Factor: 70±5%
Temperature Coefficient of Isc: 0.05%/°C
Temperature Coefficient of Voc: -0.31%/°C
Temperature Coefficient of Pmax: -0.35%/°C

Double-sided power generation parameters (Rear gain)

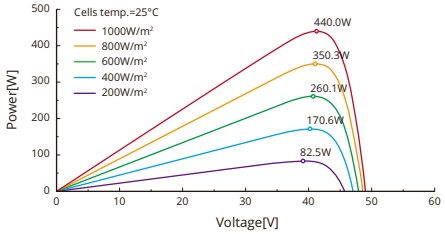
5%	*Maximum Power (Pmax)*	457W	462W	467W	473W	478W	483W	488W
	Module Efficiency (%)	21.01%	21.26%	21.50%	21.74%	21.98%	22.22%	22.46%
15%	*Maximum Power (Pmax)*	500W	506W	512W	518W	523W	529W	535W
	Module Efficiency (%)	23.02%	23.28%	23.54%	23.81%	24.07%	24.34%	24.60%
25%	*Maximum Power (Pmax)*	544W	550W	556W	563W	569W	575W	581W
	Module Efficiency (%)	25.02%	25.30%	25.59%	25.88%	26.17%	26.45%	26.74%

I-V Curve (DHM-72L9/BF-440W)

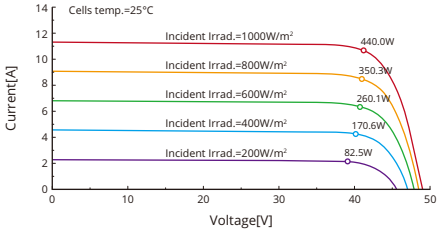
Current-Voltage Curve



Power-Voltage Curve



Current-Voltage Curve



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