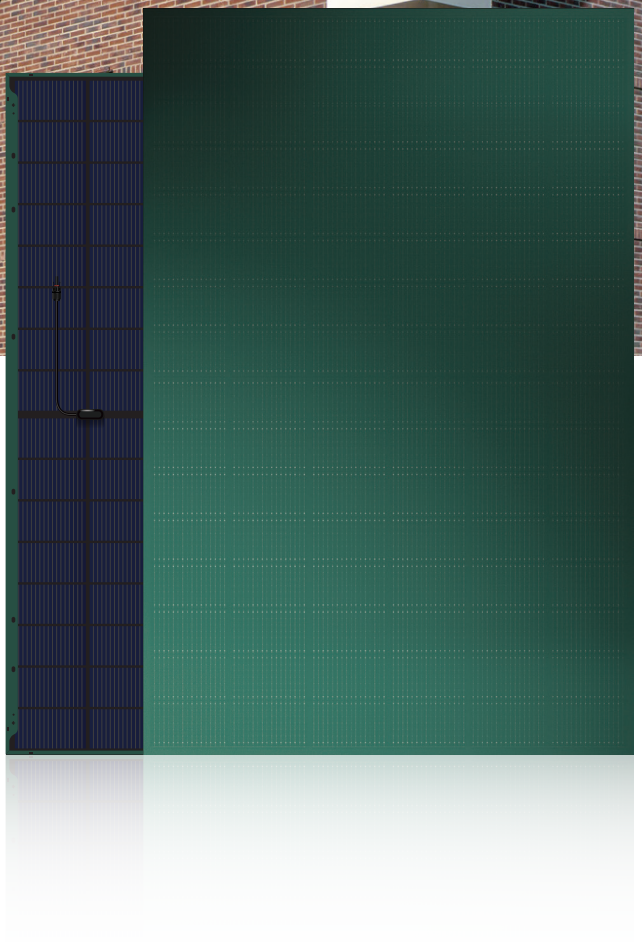
DAH Solar
en.dahsolar.com

TIER 1
BloombergNEF

DHN-48Z16/DG(MM)

415~430W

Colored Double Glass PV Module



Comprehensive Products & System Certificates

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

25 Material & technology warranty

30 Linear power output warranty

Multiple colors available,
High tech coatings guarantee color stability for 30 years

TOPCon cells double-sided rate up to 85% and more back power generation by 5-25%

Double-glass Technology, higher encapsulation blocking and mechanical strength

Fits various BIPV scenarios:
roof, curtain wall, balcony, garden, corridor and other scenes

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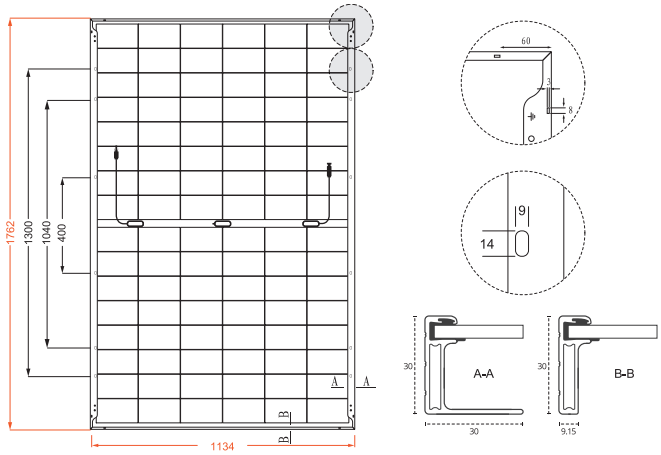
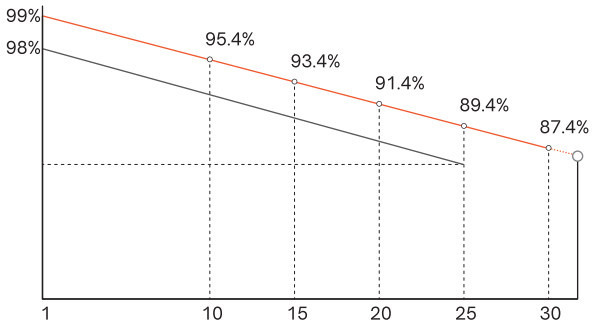
Design



30-Year Linear Power Output Warranty



— DAH Solar linear power output guarantee
— Standard linear power output guarantee

Mechanical Specification

No.of Cells	96 (6×16)
Weight	23.9kg
Cells Type	N-type 182×105mm
Dimension (L×W×T)	1762×1134×30mm
Packing	36pcs/Pallet, 936pcs/40HQ

Cable(Including connector)	4.0mm², 300/200mm in length, length can be customized
Glass	2.0mm High Transmission, Antireflection Coating
Junction Box	IP68, 3 Bypass Diodes
Connector	MC4 Compatible

Electrical Characteristics

Module Type	DHN-48Z16/DG(MM)							
Test conditions	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power (Pmax/W)	415	312	420	316	425	320	430	323
Open-circuit Voltage (Voc/V)	35.46	33.68	35.49	33.72	35.53	33.75	35.56	33.78
Maximum Power Voltage (Vmp/V)	30.58	29.05	30.61	29.08	30.65	29.11	30.68	29.15
Short-circuit Current (Isc/A)	14.09	11.38	14.21	11.47	14.33	11.57	14.45	11.67
Maximum Power Current (Imp/A)	13.57	10.74	13.72	10.86	13.87	10.98	14.02	11.09
Module Efficiency (STC)	20.77		21.02		21.27		21.52	
Refer Bifacial Factor	80±5%							

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

Double-Sided Power Generation Parameters (Rear gain)

5%	Maximum Power (Pmax)	436	441	446	452
	Module Efficiency (%)	21.81	22.07	22.33	22.60
15%	Maximum Power (Pmax)	477	483	489	495
	Module Efficiency (%)	23.89	24.17	24.46	24.75
25%	Maximum Power (Pmax)	519	525	531	538
	Module Efficiency (%)	25.96	26.27	26.59	26.90

Operating Parameters

Maximum System Voltage	1500V DC
Operating Temperature	-40 ~ +85°C
Maximum Series Fuse Rating	30A
Nominal Operating Cell Temperature	45°C±2°C
Application Level	Class A

Temperature Coefficient

Temperature Coefficient of Isc (αIsc)	0.046%/°C
Temperature Coefficient of Voc (βVoc)	-0.25%/°C
Temperature Coefficient of Pmax (γPmp)	-0.29%/°C
Snow load, frontside / Wind load, backside	5400Pa/2400Pa