



DHN-48Z20/DG(BW)

465~485W


High Eff. 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


 Material & technology warranty


 Linear power output warranty


Double-glass with no solder point and mesh interconnection to resist virtual soldering & hidden cracks.


PIB - enhanced insulation withstands over 2000V, offering superior performance.

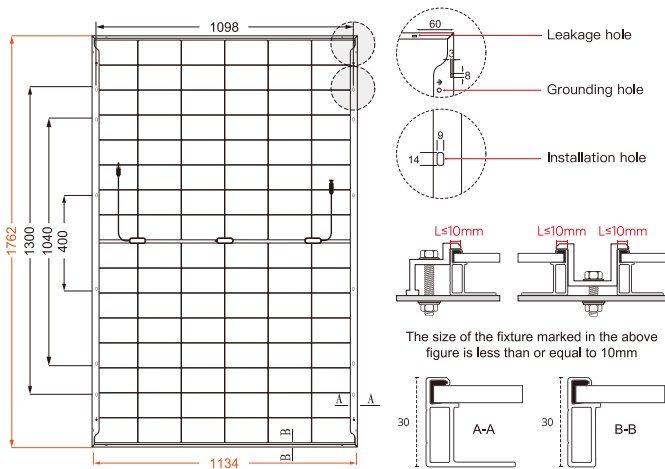

Superior installed capacity and revenue, reduce land usage for the same installed capacity.


Triple-sealing provides long-term protection for solar cells against moisture corrosion.

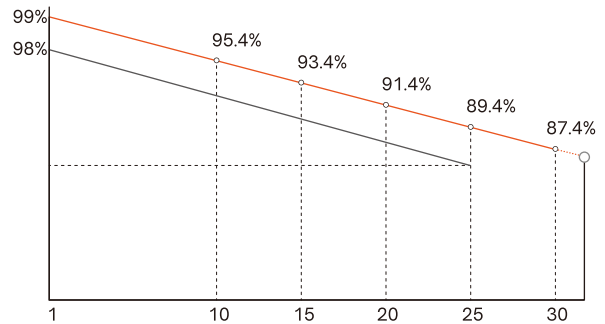

System costs are effectively reduced, with higher annual power generation revenue.

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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
Dimension (L×W×T)	1762×1134×30mm
Packing	36pcs/Pallet, 936pcs/40HQ

Cable(Including connector)	4.0mm ² , 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-48Z20/DG(BW)											
	STC		NOCT		STC		NOCT		STC		NOCT	
Test conditions	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power (P _{max} /W)	465	350	470	353	475	357	480	361	485	365	485	365
Open-circuit Voltage (V _{oc} /V)	35.4	33.6	35.5	33.7	35.6	33.8	35.7	33.9	35.8	34.0	35.8	34.0
Maximum Power Voltage (V _{mp} /V)	30.2	28.7	30.3	28.8	30.4	28.9	30.5	29.0	30.6	29.1	30.6	29.1
Short-circuit Current (I _{sc} /A)	16.18	13.06	16.22	13.10	16.26	13.13	16.30	13.16	16.34	13.19	16.34	13.19
Maximum Power Current (I _{mp} /A)	15.40	12.19	15.51	12.28	15.63	12.37	15.74	12.46	15.85	12.55	15.85	12.55
Module Efficiency (STC)	23.27		23.52		23.77		24.02		24.27		24.27	
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
 Note: The electrical data in this catalog only serve for comparison among different module type.
 They do not refer to any individual module and they are not part of the offer.

Double-Sided Power Generation Parameters (Rear gain)

Gain	Parameter	488	494	499	504	509
5%	Maximum Power (P _{max})	488	494	499	504	509
	Module Efficiency (%)	24.4	24.7	25.0	25.2	25.5
15%	Maximum Power (P _{max})	534.8	540.5	546.3	552.0	557.8
	Module Efficiency (%)	26.8	27.1	27.3	27.6	27.9
25%	Maximum Power (P _{max})	581.3	587.5	593.8	600.0	606.3
	Module Efficiency (%)	29.1	29.4	29.7	30.0	30.3

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 I _{sc} (α _{Isc})	0.046%/°C
Temperature Coefficient of V _{oc} (β _{Voc})	-0.25%/°C
Temperature Coefficient of P _{max} (γ _{Pmp})	-0.29%/°C
Snow load, frontside / Wind load, backside	5400Pa/2400Pa



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 All specific descriptions involving technical modifications and testing conditions shall be subject to the final interpretation authority of DAH Solar

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