



DHN-48Z20/DG(RR) 420~450W

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



Material & technology warranty



Linear power output warranty



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



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



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



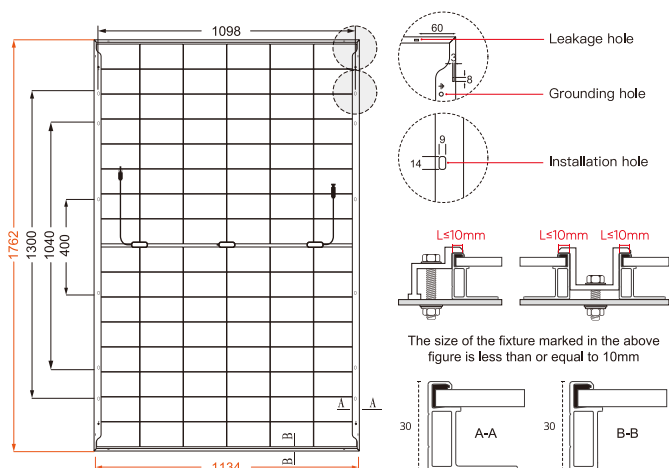
Double-glass with no solder point and mesh interconnection
to resist virtual soldering & hidden cracks.



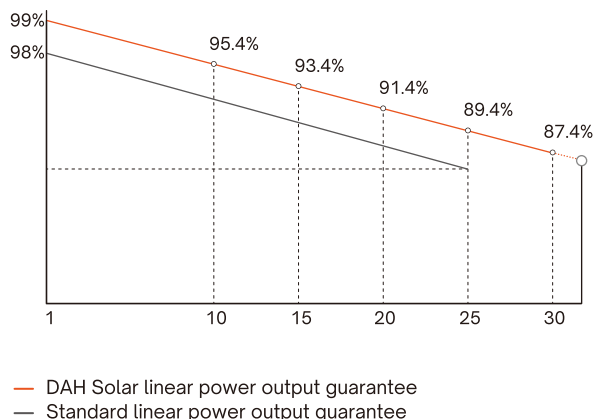
PIB - enhanced insulation withstands over 2000V, offering
superior performance.

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Design



30-Year Linear Power Output Warranty



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(RR)							
Test conditions	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power (P _{max} /W)	420	316	430	323	440	331	450	338
Open-circuit Voltage (V _{oc} /V)	34.5	32.8	34.7	33.0	34.9	33.2	35.1	33.3
Maximum Power Voltage (V _{mp} /V)	29.3	27.8	29.5	28.0	29.7	28.2	29.9	28.4
Short-circuit Current (I _{sc} /A)	15.82	12.77	15.90	12.84	15.98	12.90	16.06	12.97
Maximum Power Current (I _{mp} /A)	14.33	11.35	14.58	11.54	14.81	11.73	15.05	11.91
Module Efficiency (STC)	21.02		21.52		22.02		22.52	
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

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)

5%	Maximum Power (P _{max})	441	452	462	473
	Module Efficiency (%)	22.1	22.6	23.1	23.6
15%	Maximum Power (P _{max})	483.0	494.5	506.0	517.5
	Module Efficiency (%)	24.2	24.7	25.3	25.9
25%	Maximum Power (P _{max})	525.0	537.5	550.0	562.5
	Module Efficiency (%)	26.3	26.9	27.5	28.2

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



OFFICIAL



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