

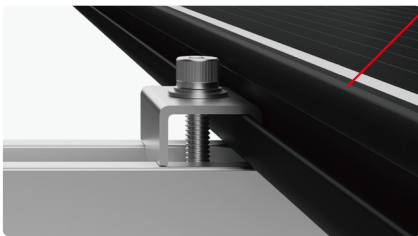


DHN-54Z20/DG/FS(BW) 520~540W

Full-Screen Double Glass PV Module 4.0

Note: The Full-Screen 4.0 module (with side mounting option) supports both standard clamp and mounting hole installation. Standard clamps include pre-attached EPDM rubber. For side mounting, please purchase the customized clamps, which will be shipped together with the modules.

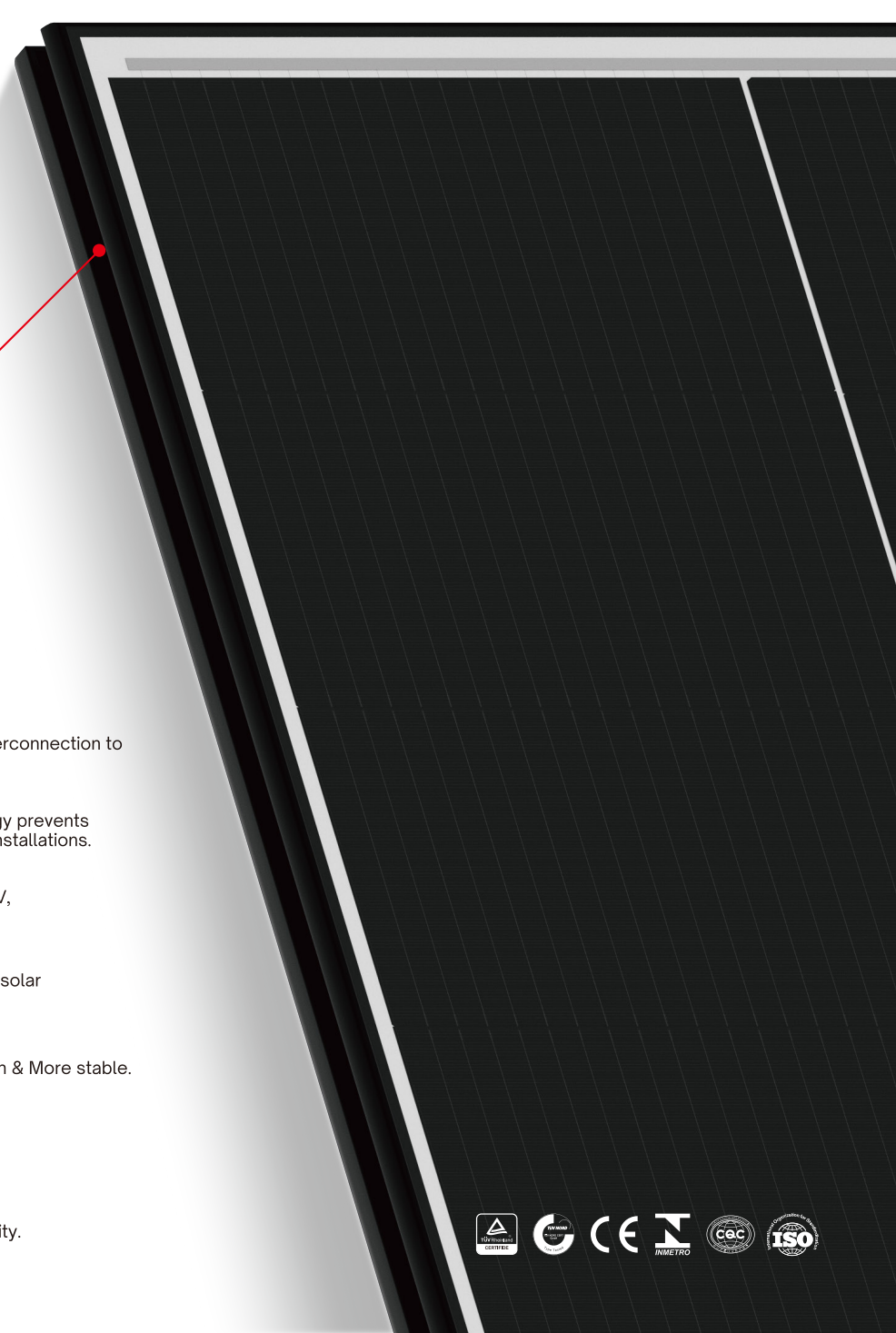
- Material & technology warranty
- Linear power output warranty



- Double-glass with no solder point and mesh interconnection to resist virtual soldering & hidden cracks.
- Global patented Full-Screen anti-dust technology prevents dust accumulation in both horizontal & vertical installations.
- PIB - enhanced insulation withstands over 2000V, offering superior performance.
- Triple-sealing provides long-term protection for solar cells against moisture corrosion.
- Side-mounting + Hiding-clamps, Easy installation & More stable.
- System costs are effectively reduced, with higher annual power generation revenue.
- Superior installed capacity and revenue, reduce land usage for the same installed capacity.

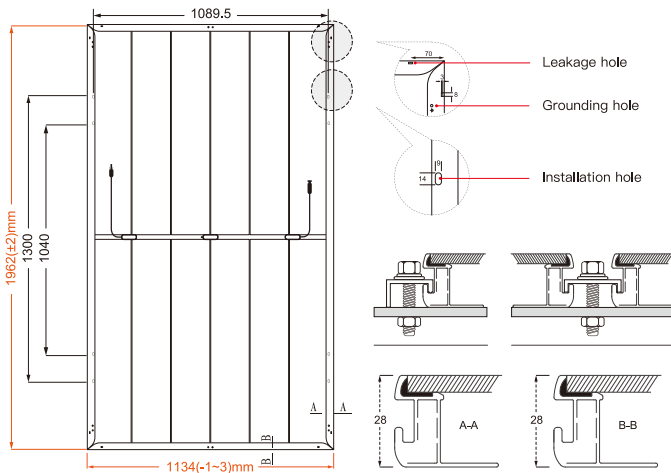
Comprehensive Products & System Certificates

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
Certified Through DERKA Wind Tunnel Testing

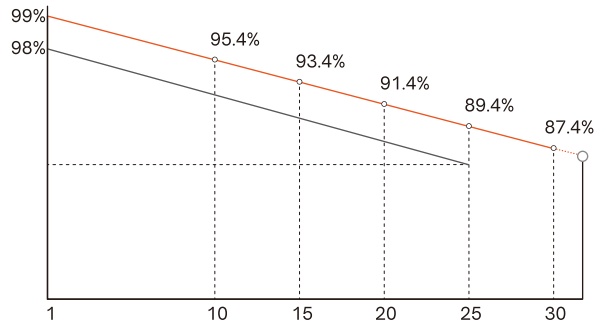


DHN-54Z20/DG/FS(BW) 520~540W

Design



30-Year Linear Power Output Warranty



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

Mechanical Specification

| | |
|-------------------|------------------------------|
| No. of Cells | 108 (6×18) |
| Weight | 27.0kg |
| Dimension (L×W×T) | 1962(±2)mm×1134(-1~3)mm×28mm |
| Packing | 37pcs/Pallet, 888pcs/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-54Z20/DG/FS(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) | 520 | 391 | 525 | 395 | 530 | 399 | 535 | 402 | 540 | 406 | | |
| Open-circuit Voltage (V _{oc} /V) | 39.9 | 37.9 | 40.0 | 38.0 | 40.1 | 38.1 | 40.2 | 38.2 | 40.3 | 38.3 | | |
| Maximum Power Voltage (V _{mp} /V) | 34.0 | 32.3 | 34.1 | 32.4 | 34.2 | 32.5 | 34.3 | 32.6 | 34.4 | 32.7 | | |
| Short-circuit Current (I _{sc} /A) | 16.22 | 13.10 | 16.26 | 13.13 | 16.30 | 13.16 | 16.34 | 13.19 | 16.38 | 13.22 | | |
| Maximum Power Current (I _{mp} /A) | 15.29 | 12.11 | 15.40 | 12.19 | 15.50 | 12.27 | 15.60 | 12.35 | 15.70 | 12.43 | | |
| Module Efficiency (STC) | 23.37 | | 23.60 | | 23.82 | | 24.05 | | 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 | 546 | 551 | 557 | 562 | 567 |
|------|-----------------------------------|-------|-------|-------|-------|-------|
| 5% | Maximum Power (P _{max}) | 546 | 551 | 557 | 562 | 567 |
| | Module Efficiency (%) | 24.5 | 24.8 | 25.0 | 25.2 | 25.5 |
| 15% | Maximum Power (P _{max}) | 598.0 | 603.8 | 609.5 | 615.3 | 621.0 |
| | Module Efficiency (%) | 26.9 | 27.1 | 27.4 | 27.7 | 27.9 |
| 25% | Maximum Power (P _{max}) | 650.0 | 656.3 | 662.5 | 668.8 | 675.0 |
| | Module Efficiency (%) | 29.2 | 29.5 | 29.8 | 30.1 | 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