

TOPCon

DHN-78X16/DG

0~+5W

600~630W



Higher Power Generation Efficiency

N-type TOPCon module could increase power generation by 3%+ per watt compared with PERC module



Higher Power Output

Bifacial module with dual glass back-side power increases 5-25%



Lower Degradation Rate, PID Resistance

First-year $\leq 1\%$, 2-30 year $\leq 0.4\%$; excellent Anti-PID performance



Lower Temp. Coefficient

More power generation under high-temperature



Better Dim Light Performance

Excellent performance under dim light

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

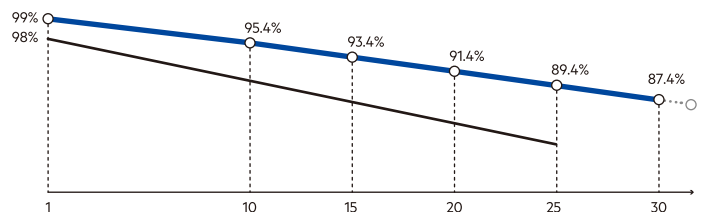
ISO 9001: 2015/Quality management system



Quality Guarantee

15-Year Material & Technology Warranty

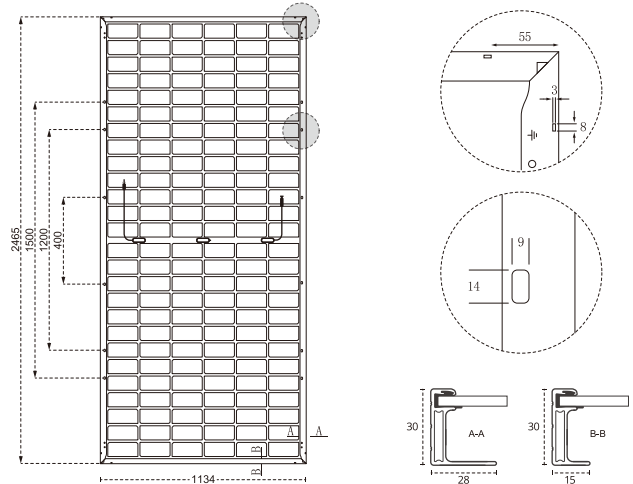
30-Year Linear Power Output Warranty



▲ DAH Solar Linear power output guarantee ▲ Standard Linear power output guarantee

Mechanical Specification

| | |
|-----------------------|---|
| Cable | 4.0mm ² , 300/200mm in Length |
| (Including Connector) | Length can be Customized |
| No.of Cells | 156 (6×26) |
| Glass | 2.0mm High Transmission, Antireflection Coating |
| Junction Box | IP68, 3 Bypass Diodes |
| Connector | MC4 Compatible |
| Weight | 35kg |
| Cells Type | N-type 182×91mm |
| Dimension (L×W×T) | 2465×1134×30mm |
| Packing | 36pcs/Pallet, 576pcs/40HQ |



Electrical Characteristics

| Module Type | DHN-78X16/DG | | | | | | | | | | | | | |
|-----------------------------|--------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | STC | NOCT | STC | NOCT | STC | NOCT | STC | NOCT | STC | NOCT | STC | NOCT | | |
| Maximum Power (Pmax) | 600 | 451 | 605 | 455 | 610 | 459 | 615 | 462 | 620 | 466 | 625 | 470 | 630 | 474 |
| Open-circuit Voltage (Voc) | 54.8 | 52.1 | 55.0 | 52.3 | 55.2 | 52.4 | 55.4 | 52.6 | 55.6 | 52.8 | 55.8 | 53.0 | 56.0 | 53.2 |
| Maximum Power Voltage (Vmp) | 46.0 | 43.7 | 46.2 | 43.9 | 46.4 | 44.1 | 46.6 | 44.3 | 46.8 | 44.5 | 47.0 | 44.7 | 47.2 | 44.8 |
| Short-Circuit Current (Isc) | 13.84 | 11.17 | 13.90 | 11.22 | 13.96 | 11.27 | 14.02 | 11.32 | 14.08 | 11.37 | 14.14 | 11.42 | 14.20 | 11.46 |
| Maximum Power Current (Imp) | 13.04 | 10.32 | 13.10 | 10.37 | 13.15 | 10.41 | 13.20 | 10.45 | 13.25 | 10.49 | 13.30 | 10.53 | 13.35 | 10.57 |
| Module Efficiency (STC) | 21.46 | | 21.64 | | 21.82 | | 22.00 | | 22.18 | | 22.36 | | 22.54 | |
| 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) | 630 | 635.25 | 640.5 | 645.75 | 651 | 656.25 | 661.5 |
| | Module Efficiency (%) | 22.54 | 22.73 | 22.91 | 23.10 | 23.29 | 23.48 | 23.66 |
| 15% | Maximum Power (Pmax) | 690 | 696 | 702 | 707 | 713 | 719 | 725 |
| | Module Efficiency (%) | 24.68 | 24.89 | 25.10 | 25.30 | 25.51 | 25.71 | 25.92 |
| 25% | Maximum Power (Pmax) | 750 | 756 | 763 | 769 | 775 | 781 | 788 |
| | Module Efficiency (%) | 26.83 | 27.05 | 27.28 | 27.50 | 27.73 | 27.95 | 28.17 |

Operating Parameters

| | |
|------------------------------------|-------------|
| Maximum System Voltage | 1500V DC |
| Power Tolerance | 0~+5W |
| 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 (α Isc) | 0.046%/°C |
| Temperature Coefficient of Voc (β Voc) | -0.25%/°C |
| Temperature Coefficient of Pmax (γ Pmp) | -0.30%/°C |

Mechanical Loads

| | |
|--|---------------|
| Snow load, frontside / Wind load, backside | 5400Pa/2400Pa |
|--|---------------|

I-V Curve

