



TOPCon

DHN-54X16/BF/FS(BB)

420~430W

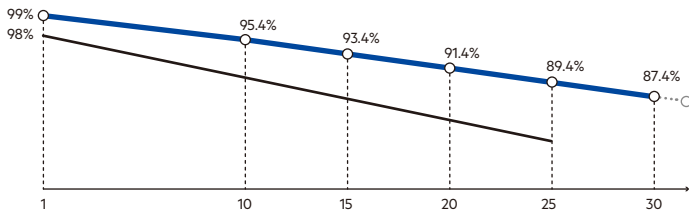
BIFACIAL

Full Screen PV Module

No Dust and Dirt on the Surface Increases Power Generation

Quality Guarantee

12-year Material & technology warranty
30-year Linear power output warranty



▲ DAH Solar linear power output guarantee
▾ Standard linear power output guarantee

Comprehensive Products & System Certificates



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



Full-Screen Technology Increases Power Generation by 6-15%
No water and dust, which reduces the power loss and maintenance cost



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 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



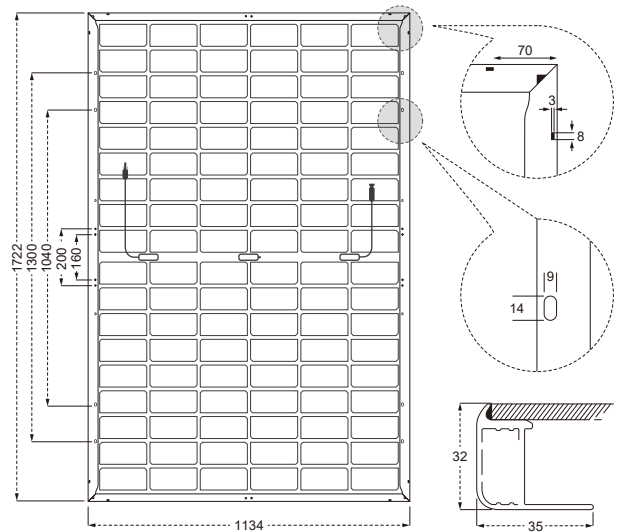
Better Dim Light Performance
Excellent performance under dim light



Mechanical Specification

| | |
|--------------------------|---|
| Cable | 4.0mm ² , 350/250mm in length, |
| (Including connector) | length can be customized |
| No.of Cells | 108 (6×18) |
| Glass | 3.2mm High Transmission, Antireflection Coating |
| Junction box | IP68, 3 Bypass Diodes |
| Connector | MC4 Compatible |
| Weight | 22kg |
| Cells Type | N-type 182×91mm |
| Dimension (L×W×T) | 1722×1134×32mm |
| Packing | 34pcs/pallet, 884pcs/40HQ |

Design



Operating Parameters

| | |
|--|---------------|
| Maximum system voltage | 1500V DC |
| Operating Temperature | -40 ~ +85°C |
| Maximum series fuse rating | 30A |
| Snow load, frontside/Wind load, backside | 5400Pa/2400Pa |
| Nominal operating cell temperature | 45°C±2°C |
| Application level | Class A |

Electrical Characteristics

| Module Type | DHN-54X16/BF/FS(BB) | | | | | | | |
|-----------------------------|---------------------|-------|--------|-------|--------|-------|------|--|
| | STC | | Noct | | STC | | Noct | |
| Maximum Power (Pmax) | 420 | 316 | 425 | 320 | 430 | 323 | | |
| Open-circuit Voltage (Voc) | 37.6 | 35.72 | 37.8 | 35.91 | 38.0 | 36.10 | | |
| Maximum Power Voltage (Vmp) | 32.1 | 30.50 | 32.3 | 30.69 | 32.5 | 30.88 | | |
| Short-circuit Current (Isc) | 13.72 | 11.08 | 13.78 | 11.13 | 13.84 | 11.17 | | |
| Maximum Power Current (Imp) | 13.08 | 10.36 | 13.16 | 10.42 | 13.23 | 10.47 | | |
| Module Efficiency (STC) | 21.51% | | 21.76% | | 22.02% | | | |

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

Refer Bifacial Factor: 80±5% Temperature Coefficient of Voc: -0.25%/°C
 Temperature Coefficient of Isc: 0.046%/°C Temperature Coefficient of Pmax: -0.30%/°C

Double-sided power generation parameters (Rear gain)

| | | | | |
|-----|-----------------------|-------|-------|-------|
| 5% | Maximum Power (Pmax) | 441 | 446 | 452 |
| | Module Efficiency (%) | 22.58 | 22.85 | 23.12 |
| 15% | Maximum Power (Pmax) | 483 | 489 | 495 |
| | Module Efficiency (%) | 24.73 | 25.03 | 25.32 |
| 25% | Maximum Power (Pmax) | 525 | 531 | 538 |
| | Module Efficiency (%) | 26.89 | 27.21 | 27.53 |

I-V Curve

