

DHN-54R18/FS(BB)

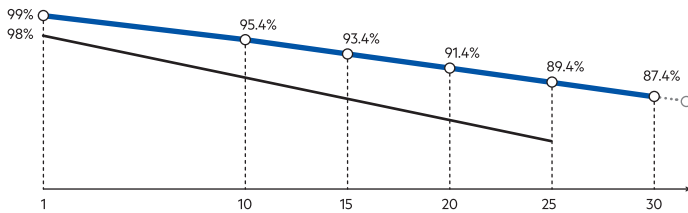
450~470W

Full Screen PV Module

No Dust and Dirt on the Surface Increases Power Generation

Quality Guarantee

25-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 / INMETRO
ISO 45001: 2018/International standards for occupational health & safety
ISO 14001: 2015/Standards for environmental management system
ISO 9001: 2015/Quality management system



Global Patented Full Screen Technology, no dust or snow accumulation, increase power generation by 6-15%



Rectangular cells (182mm x 191.6mm) with higher power



Maximize container utilization, increase loading capacity by 5.4%, and lower transportation costs



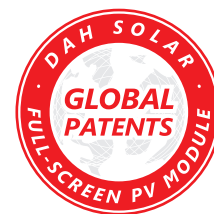
High power rectangular solar cells, saving bracket and cable costs, and lower BOS costs



TOPCon cells, lower attenuation, better temperature coefficient & dim light performance

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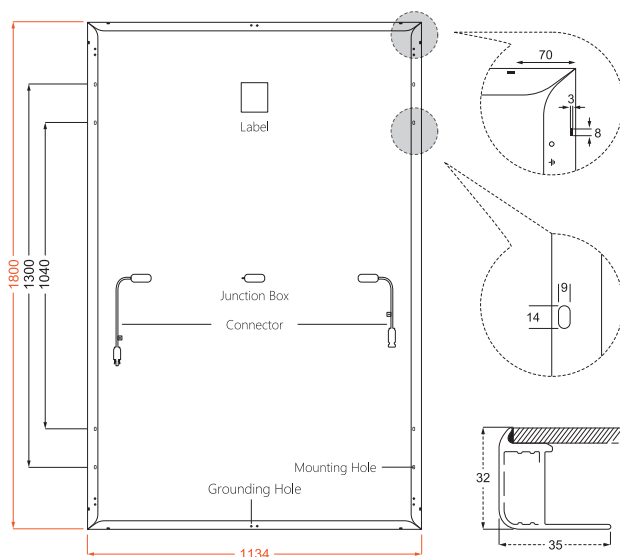
450~470W



Mechanical Specification

| | |
|-----------------------|---|
| Cable | 4.0mm ² , 300/200mm 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 | 20.0kg |
| Cells Type | N-type 182×95.8mm |
| Dimension (L×W×T) | 1800×1134×32mm |
| Packing | 34pcs/pallet, 816pcs/40HQ |

Design



Operating Parameters

| | |
|--|---------------|
| Maximum System Voltage | 1500V DC |
| Operating Temperature | -40 ~ +85°C |
| Maximum Series Fuse Rating | 25A |
| Snow Load, Frontside/Wind Load, Backside | 5400Pa/2400Pa |
| Nominal Operating Cell Temperature | 45°C±2°C |
| Application Level | Class A |

STC—Electrical Characteristics

| Module Type | DHN-54R18/FS(BB) | | | | |
|--|------------------|-------|-------|-------|-------|
| | 450 | 455 | 460 | 465 | 470 |
| Maximum Power (P _{max} /W) | 450 | 455 | 460 | 465 | 470 |
| Open-circuit Voltage (V _{oc} /V) | 39.4 | 39.6 | 39.8 | 40.0 | 40.2 |
| Maximum Power Voltage (V _{mp} /V) | 33.5 | 33.7 | 33.9 | 34.1 | 34.3 |
| Short-circuit Current (I _{sc} /A) | 14.42 | 14.48 | 14.54 | 14.60 | 14.66 |
| Maximum Power Current (I _{mp} /A) | 13.43 | 13.50 | 13.57 | 13.64 | 13.70 |
| Module Efficiency (%) | 22.05 | 22.29 | 22.54 | 22.78 | 23.03 |

Power Tolerance: 0~+5W, Temperature Coefficient of I_{sc}: 0.046%/°C, Temperature Coefficient of V_{oc}: -0.25%/°C, Temperature Coefficient of P_{max}: -0.29%/°C

Standard Test Environment : Irradiance 1000W/m², Cell temperature 25°C, Spectrum AM1.5

NOCT—Electrical Characteristics

| | | | | | |
|--|-------|-------|-------|-------|-------|
| Maximum Power (P _{max} /W) | 338 | 342 | 346 | 350 | 353 |
| Open-circuit Voltage (V _{oc} /V) | 37.4 | 37.6 | 37.8 | 38.0 | 38.2 |
| Maximum Power Voltage (V _{mp} /V) | 31.8 | 32.0 | 32.2 | 32.4 | 32.6 |
| Short-circuit Current (I _{sc} /A) | 11.64 | 11.69 | 11.74 | 11.79 | 11.84 |
| Maximum Power Current (I _{mp} /A) | 10.63 | 10.69 | 10.74 | 10.79 | 10.85 |

Standard Test Environment : Irradiance 800W/m², Ambient temperature 20°C, Spectrum AM1.5, Wind speed 1m/s

I-V Curve

