

DHN-54R18/FS(BW)

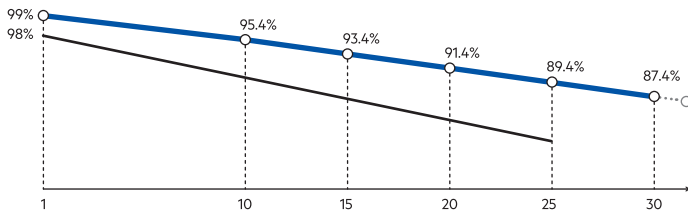
450~470W

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



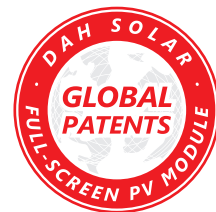
High power rectangular solar cells, saving bracket and cable costs, and lower BOS costs



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

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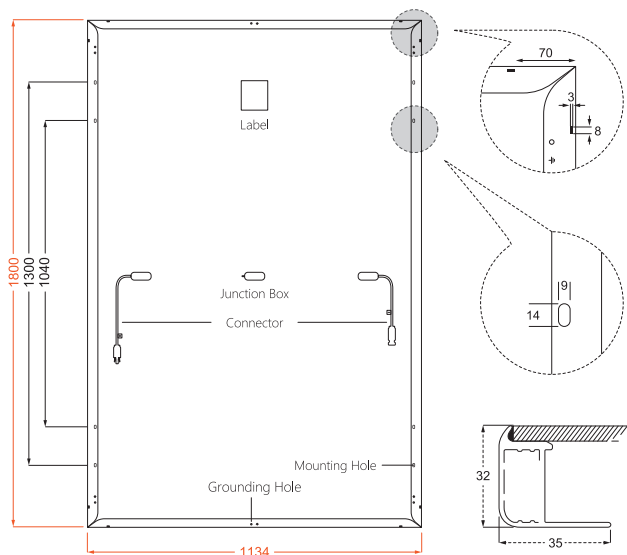
450~470W



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(BW)				
	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

