DAH Solar | Full Screen PV Module

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DAH SOLAR GLOBAL PATENTS FULL-SCREEN PV MODULE

TIER 1 BloombergNEF

DBB

DHN-54R20/FS

450~470W

Full-Screen Single Glass PV Module

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

25 Material & technology warranty

30 Linear power output warranty

No-Busbar(0BB) Technology, shorten 40% of the transmission distance.
Reduces losses & improving conversion efficiency

Frameless design, installable both vertically & horizontally,
No water, no dust, snow slide fast, power generation increased by 6-15%

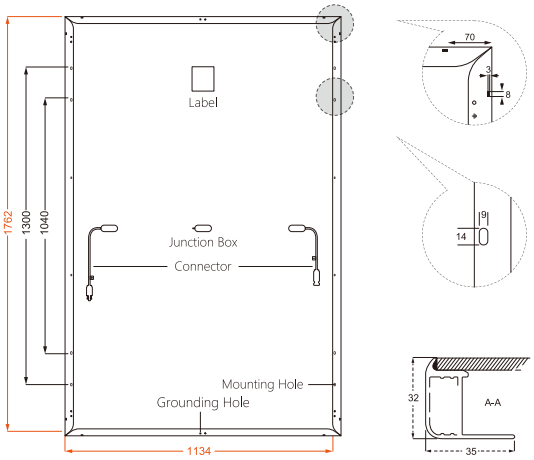
30

Higher power, longer service life, linear power warranty for 30 years

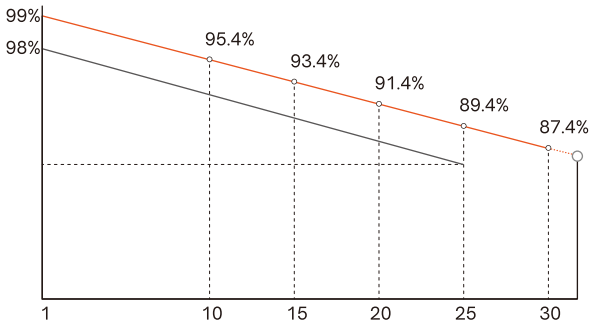
TOPCon cells, lower attenuation,
better temperature coefficient & dim ligh performance

DHN-54R20/FS 450~470W

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	19.6kg
Cells Type	N-type 182×95.8mm
Dimension (L×W×T)	1762×1134×32mm
Packing	34pcs/Pallet, 884pcs/40HQ

Cable (Including connector)	4.0mm², 300/200mm in length, length can be customized
Glass	3.2mm High Transmission, Antireflection Coating
Junction Box	IP68, 3 Bypass Diodes
Connector	MC4 Compatible

STC-Electrical Characteristics

Module Type	DHN-54R20/FS				
Maximum Power (Pmax/W)	450	455	460	465	470
Open-circuit Voltage (Voc/V)	39.4	39.6	39.8	40.0	40.2
Maximum Power Voltage (Vmp/V)	33.5	33.7	33.9	34.1	34.3
Short-circuit Current (Isc/A)	14.42	14.48	14.54	14.60	14.66
Maximum Power Current (Imp/A)	13.43	13.50	13.57	13.64	13.70
Module Efficiency (%)	22.52	22.77	23.02	23.27	23.52

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

NOCT-Electrical Characteristics

Maximum Power (Pmax/W)	338	342	346	350	353
Open-circuit Voltage (Voc/V)	37.4	37.6	37.8	38.0	38.2
Maximum Power Voltage (Vmp/V)	31.8	32.0	32.2	32.4	32.6
Short-circuit Current (Isc/A)	11.64	11.69	11.74	11.79	11.84
Maximum Power Current (Imp/A)	10.63	10.69	10.74	10.79	10.85

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

Operating Parameters

Maximum System Voltage	1500V DC
Operating Temperature	-40 ~ +85°C
Maximum Series Fuse Rating	25A
Nominal Operating Cell Temperature	45°C±2°C
Application Level	Class A

Temperature Coefficient

Temperature Coefficient of Isc (αIsc)	0.046%/°C
Temperature Coefficient of Voc (βVoc)	-0.25%/°C
Temperature Coefficient of Pmax (γPmp)	-0.29%/°C
Snow load, frontside / Wind load, backside	5400Pa/2400Pa

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