DAH Solar | Full Screen PV Module

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DAH SOLAR GLOBAL PATENTS FULL-SCREEN PV MODULE

TIER 1 BloombergNEF

DBB

DHN-60R20/DG/FS-520W

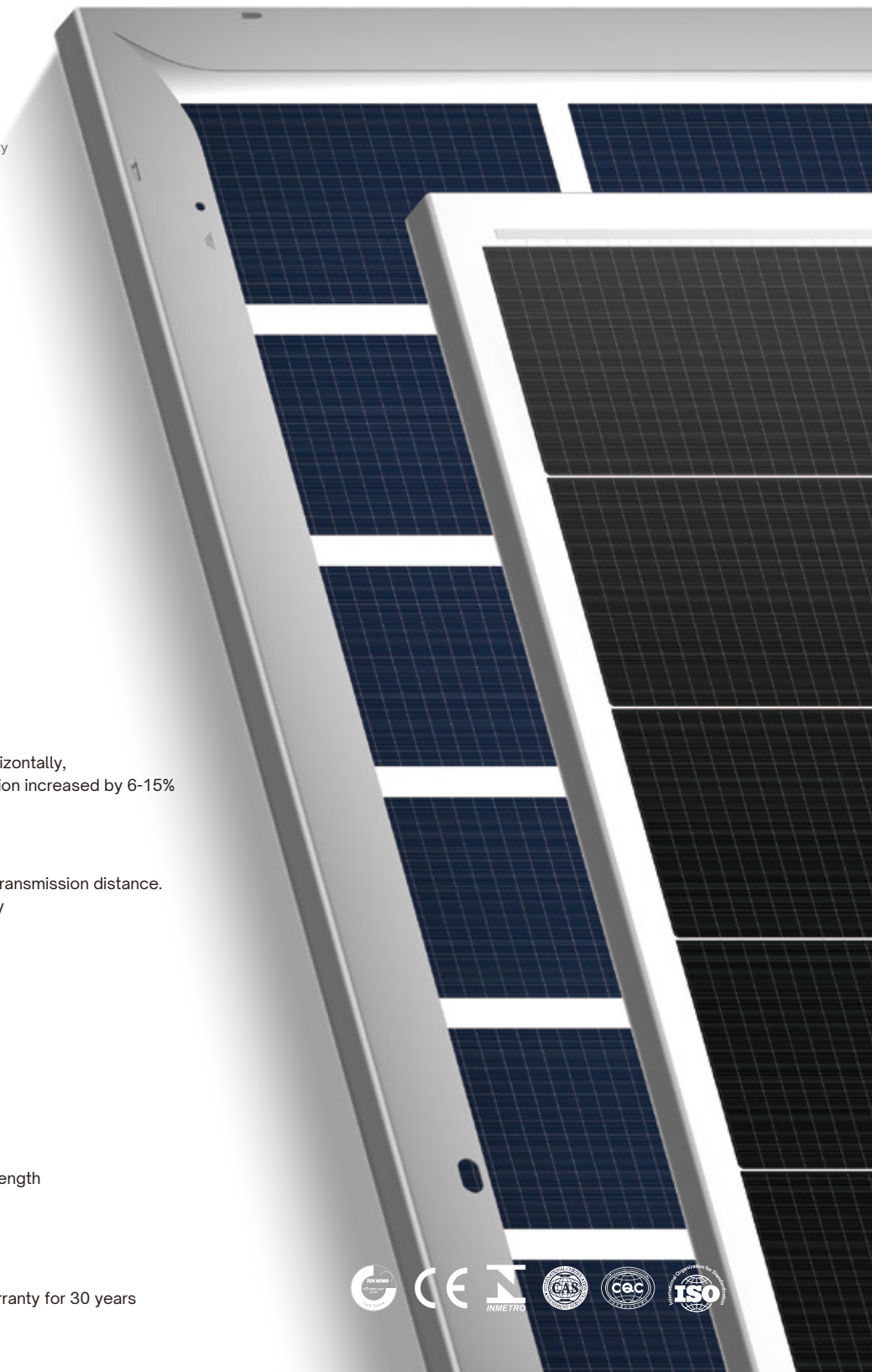
Full-Screen Double Glass PV Module

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



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

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

TOPCon cells double-sided rate up to 85% and
more back power generation by 5-25%

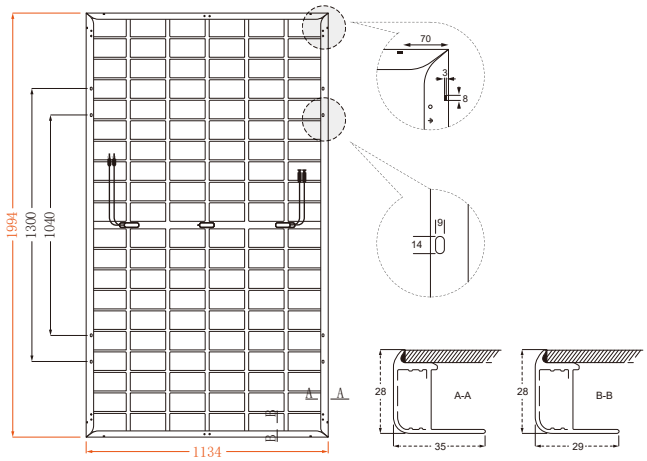
Double-glass Technology,
higher encapsulation blocking and mechanical strength

30

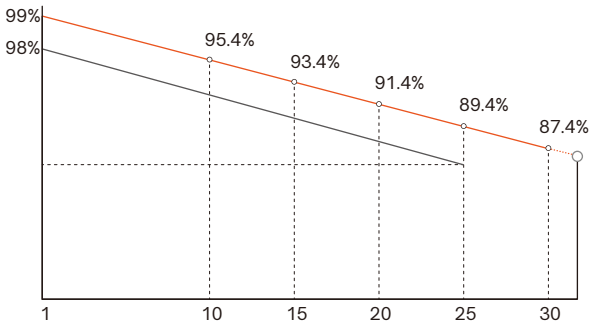
Higher power, longer service life, linear power warranty for 30 years

DHN-60R20/DG/FS-520W

Design



30-Year Linear Power Output Warranty



— DAH Solar linear power output guarantee
— Standard linear power output guarantee

Mechanical Specification

No.of Cells	120 (6×20)
Weight	27.2kg
Cells Type	N-type 182×95.8mm
Dimension (L×W×T)	1994×1134×28mm
Packing	38pcs/pallet, 836pcs/40HQ

Cable (Including connector)	4.0mm², 300/200mm in length, length can be customized
Glass	2.0mm High Transmission, Antireflection Coating
Junction Box	IP68, 3 Bypass Diodes
Connector	PV5e, Changshu Friends Connector Technology Co.,Ltd Customized Connectors

Electrical Characteristics

Module Type	DHN-60R20/DG/FS-520W	
Test conditions	STC	Noct
Maximum Power (Pmax/W)	520	391
Open-circuit Voltage (Voc/V)	44.5	42.3
Maximum Power Voltage (Vmp/V)	37.9	36.0
Short-circuit Current (Isc/A)	14.72	11.88
Maximum Power Current (Imp/A)	13.72	10.86
Module Efficiency (%)	23.00%	
Refer Bifacial Factor	80±5%	

STC-Standard Test Environment: Irradiance 1000W/m², Cell temperature 25°C, Spectrum AM1.5 Tolerance: Pmax=±3%, Voc=±3%, Isc=±3%
NOC-Standard Test Environment: Irradiance 800W/m², Ambient temperature 20°C, Spectrum AM1.5, Wind speed 1m/s

Electrical ratings at irradiance level at BNPI

Rated Voc at STC (V) / tolerance ±3%	44.7
Rated Isc at STC (A) / tolerance ±3%	16.21
Rated Vmp at STC (V)	38.1
Rated Imp at STC (A)	15.09
Rated Pmax at STC (W) / tolerance±3%	575

Bifaciality coefficient with tolerance: φIsc= 80%±5%, φVoc= 98%±2%, φPmax= 80%±5%

Electrical ratings at irradiance level at aBSI

Rated Isc at aBSI (A) / tolerance ±3%	18.03

Operating Parameters

Maximum System Voltage	1500V DC
Operating Temperature	-40 ~ +85°C
Maximum Series Fuse Rating	30A
Nominal Operating Cell Temperature	45°C±2°C
Application Level	Class A
Power sorting tolerance	0 ~ 5W

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

Fire class	CLASS A
Snow load, frontside / Wind load, backside	5400Pa/2400Pa

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