



DBB DHN-54R20/DG/FS(BW)-465W

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



Material & technology warranty

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%



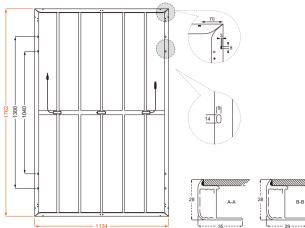
Double-glass Technology, higher encapsulation blocking and mechanical strength



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

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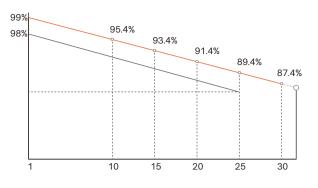
Design



Mechanical Specification

No.of Cells	108 (6×18)
Weight	24.4kg
Cells Type	N-type 182×95.8mm
Dimension (L×W×T)	1762×1134×28mm
Packing	36pcs/pallet, 864pcs/40HQ

30-Year Linear Power Output Warranty



DAH Solar linear power output guarantee _ - Standard linear power output guarantee

Cable	4.0mm², 300/200mm in length,
(Including connector)	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

E	lec	tric	cal	Ch	ara	act	eri	sti	cs	

Module Type	DHN-54R20/DG/FS(BW)-465W		
Test conditions	STC NOCT		
Maximum Power (Pmax/W)	465 350		
Open-circuit Voltage (Voc/V)	40.0 38.0		
Maximum Power Voltage (Vmp/V)	34.1 32.4		
Short-circuit Current (Isc/A)	14.60 11.79		
Maximum Power Current (Imp/A)	13.64 10.79		
Module Efficiency (STC)	23.27%		
Refer Bifacial Factor	80±5%		

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

Electrical ratings at irradiance level at BNPI				
Rated Voc at STC (V) / tolerance ±3%	40.2			
Rated Isc at STC (A) / tolerance ±3%	16.09			
Rated Vmp at STC (V)	34.3			
Rated Imp at STC (A)	15.01			
Rated Pmax at STC (W) / tolerance±3%	515			
Bifaciality coefficient with tolerance: φlsc= 80%±5%, φVoc= 98%±2%, φPmax= 80%±5%				
Electrical ratings at irradiance level at aBSI				

Rated Isc at aBSI (A) / tolerance ±3%

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

17.91

Temperature Coefficient of lsc (alsc)	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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