

# TOPCon

DHN-54R18/DG(BB)

0~+5W

## 445~465W



### Higher Power Generation Efficiency

N-type TOPCon module could increase power generation by 3%+ per watt compared with PERC module



### Higher Power Output

Bifacial module with dual glass back-side power increases 5-25%



### Lower Degradation Rate, PID Resistance

First-year  $\leq 1\%$ , 2-30 year  $\leq 0.4\%$ ; excellent Anti-PID performance



### Lower Temp. Coefficient

More power generation under high-temperature



### Better Dim Light Performance

Excellent performance under dim light

## 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

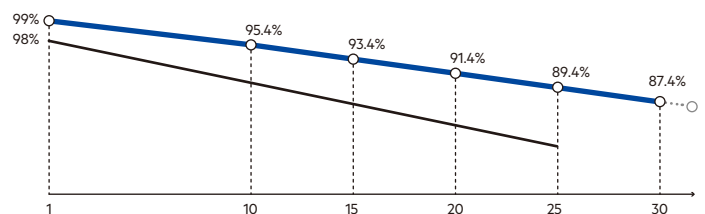
ISO 9001: 2015/Quality management system



## Quality Guarantee

15-Year Material & Technology Warranty

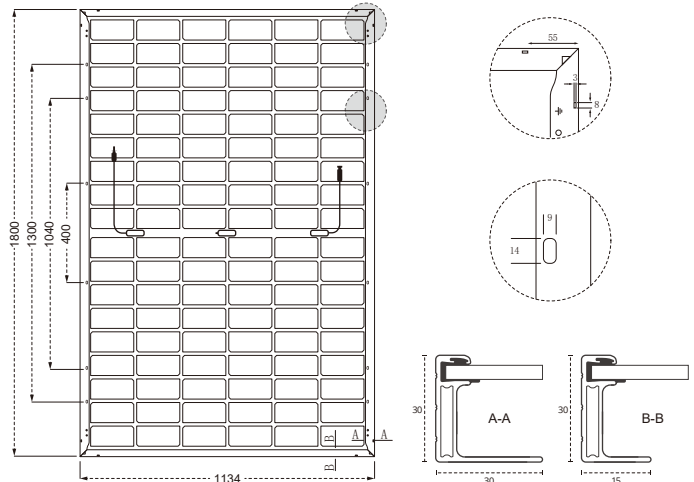
30-Year Linear Power Output Warranty



▲ DAH Solar Linear power output guarantee    ▲ Standard Linear power output guarantee

### Mechanical Specification

Cable	4.0mm <sup>2</sup> , 350/250mm in length, (Including Connector) length can be customized
No.of Cells	108 (6×18)
Glass	2.0mm High Transmission, Antireflection Coating
Junction Box	IP68, 3 Bypass Diodes
Connector	MC4 Compatible
Weight	25.4kg
Cells Type	N-type 182×95.8mm
Dimension (L×W×T)	1800×1134×30mm
Packing	36pcs/Pallet, 864pcs/40HQ



### Electrical Characteristics

Module Type	DHN-54R18/DG(BB)										
	STC		NOCT		STC		NOCT		STC		NOCT
Maximum Power (Pmax)	445	335	450	338	455	342	460	346	465	350	
Open-circuit Voltage (Voc)	39.2	37.2	39.4	37.4	39.6	37.6	39.8	37.8	40.0	38.0	
Maximum Power Voltage (Vmp)	33.3	31.6	33.5	31.8	33.7	32.0	33.9	32.2	34.1	32.4	
Short-Circuit Current (Isc)	14.36	11.59	14.42	11.64	14.48	11.69	14.54	11.74	14.60	11.79	
Maximum Power Current (Imp)	13.36	10.58	13.43	10.63	13.50	10.69	13.57	10.74	13.64	10.79	
Module Efficiency (STC)	21.80%		22.05%		22.29%		22.54%		22.78%		
Refer Bifacial Factor	80±5%										

STC: Standard Test Environment : Irradiance 1000W/m<sup>2</sup>, Cell temperature 25°C, Spectrum AM1.5

NOCT: Standard Test Environment : Irradiance 800W/m<sup>2</sup>, Ambient temperature 20°C, Spectrum AM1.5, Wind speed 1m/s

### Double-Sided Power Generation Parameters (Rear gain)

5%	Maximum Power (Pmax)	467	473	478	483	488
	Module Efficiency (%)	22.9	23.1	23.4	23.7	23.9
15%	Maximum Power (Pmax)	511.8	517.5	523.3	529.0	534.8
	Module Efficiency (%)	25.1	25.4	25.6	25.9	26.2
25%	Maximum Power (Pmax)	556.3	562.5	568.8	575.0	581.3
	Module Efficiency (%)	27.3	27.6	27.9	28.2	28.5

### Operating Parameters

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

### Temperature Coefficient

Temperature Coefficient of Isc ( α Isc )	0.046%/°C
Temperature Coefficient of Voc ( β Voc )	-0.25%/°C
Temperature Coefficient of Pmax ( γ Pmp )	-0.30%/°C

### Mechanical Loads

Snow load, frontside / Wind load, backside	5400Pa/2400Pa
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### I-V Curve

