



TOPCon

DHN-54X16/BF/FS(BB)

420~430W

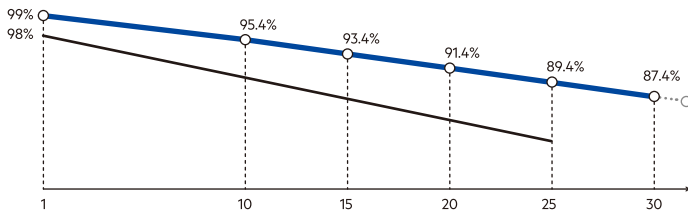
BIFACIAL

P V M o d u l e
Full Screen

No Dust and Dirt on the Surface Increases Power Generation

Quality Guarantee

15-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 / FIDE / INMETRO
ISO 45001 : 2018/International standards for occupational health & safety
ISO 14001 : 2015/Standards for environmental management system
ISO 9001 : 2015/Quality management system



Full-Screen Technology Increases Power Generation by 6-15%
No water and dust, which reduces the power loss and maintenance cost



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 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



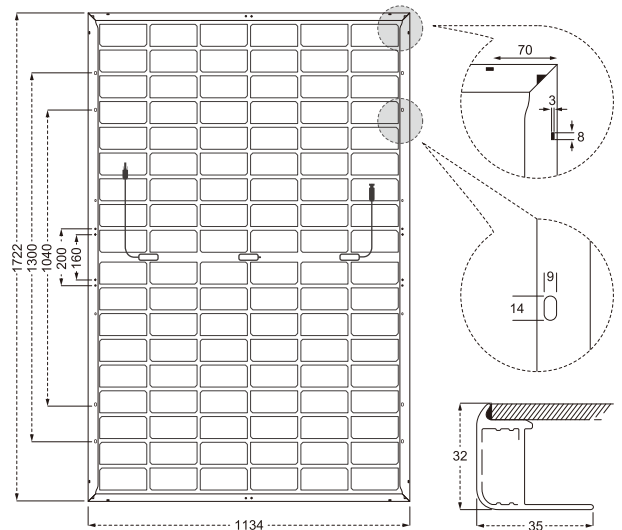
Better Dim Light Performance
Excellent performance under dim light



Mechanical Specification

Cable	4.0mm ² , 350/250mm 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	22kg
Cells Type	N-type 182×91mm
Dimension (L×W×T)	1722×1134×32mm
Packing	34pcs/pallet, 884pcs/40HQ

Design



Operating Parameters

Maximum system voltage	1500V DC
Operating Temperature	-40 ~ +85°C
Maximum series fuse rating	30A
Snow load, frontside/Wind load, backside	5400Pa/2400Pa
Nominal operating cell temperature	45°C±2°C
Application level	Class A

Electrical Characteristics

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Module Type	STC		Noct		STC		Noct	
	<i>Maximum Power (Pmax)</i>	420	316	425	320	430	323	
<i>Open-circuit Voltage (Voc)</i>	37.6	35.72	37.8	35.91	38.0	36.10		
<i>Maximum Power Voltage (Vmp)</i>	32.1	30.50	32.3	30.69	32.5	30.88		
<i>Short-circuit Current (Isc)</i>	13.72	11.08	13.78	11.13	13.84	11.17		
<i>Maximum Power Current (Imp)</i>	13.08	10.36	13.16	10.42	13.23	10.47		
<i>Module Efficiency (STC)</i>	21.51%		21.76%		22.02%			

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

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

Refer Bifacial Factor: 80±5%

Temperature Coefficient of Voc: -0.25%/°C

Temperature Coefficient of Isc: 0.046%/°C

Temperature Coefficient of Pmax: -0.30%/°C

Double-sided power generation parameters (Rear gain)

5%	<i>Maximum Power (Pmax)</i>	441	446	452
	<i>Module Efficiency (%)</i>	22.58	22.85	23.12
15%	<i>Maximum Power (Pmax)</i>	483	489	495
	<i>Module Efficiency (%)</i>	24.73	25.03	25.32
25%	<i>Maximum Power (Pmax)</i>	525	531	538
	<i>Module Efficiency (%)</i>	26.89	27.21	27.53

I-V Curve

