



**TOPCon**

DHN-54X16/DG/FS

**420~440W**

DOUBLE GLASS

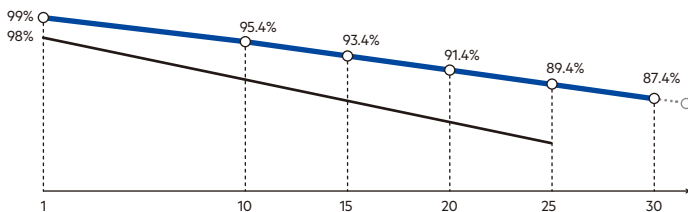
P V M o d u l e

# 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



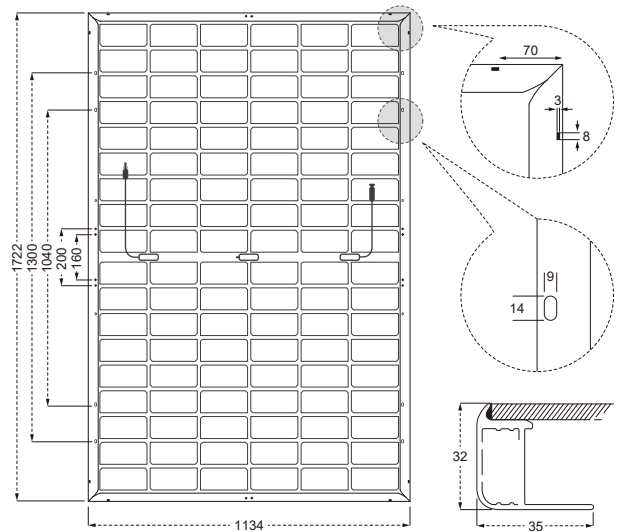
**Better Dim Light Performance**  
Excellent performance under dim light



## Mechanical Specification

Cable	4.0mm <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	24kg
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

### DHN-54X16/DG/FS

Module Type	STC		Noct		STC		Noct		STC		Noct		STC		Noct	
	STC	Noct	STC	Noct	STC	Noct	STC	Noct	STC	Noct	STC	Noct	STC	Noct	STC	Noct
Maximum Power (Pmax)	420	316	425	320	430	323	435	327	440	331						
Open-circuit Voltage (Voc)	37.6	35.72	37.8	35.91	38.0	36.10	38.2	36.29	38.4	36.48						
Maximum Power Voltage (Vmp)	32.1	30.50	32.3	30.69	32.5	30.88	32.7	31.07	32.9	31.26						
Short-circuit Current (Isc)	13.72	11.08	13.78	11.13	13.84	11.17	13.90	11.22	13.96	11.27						
Maximum Power Current (Imp)	13.08	10.36	13.16	10.42	13.23	10.47	13.30	10.53	13.37	10.59						
Module Efficiency (STC)	21.51%		21.76%		22.02%		22.28%		22.53%							

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

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%	Maximum Power (Pmax)	441	446	452	457	462
	Module Efficiency (%)	22.58	22.85	23.12	23.39	23.66
15%	Maximum Power (Pmax)	483	489	495	500	506
	Module Efficiency (%)	24.73	25.03	25.32	25.62	25.91
25%	Maximum Power (Pmax)	525	531	538	544	550
	Module Efficiency (%)	26.89	27.21	27.53	27.85	28.17

## I-V Curve

