



# TOPCon

DHN-54X16/BF/FS

## 440W

BIFACIAL

**Fire safety class:**

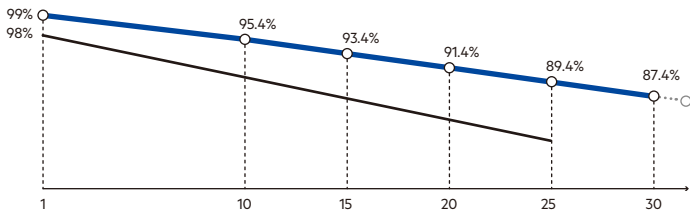
Class C according to ANSI/UL 1703-2018(as per ANSI/UL 790-2018)

# Full Screen

**No Dust and Dirt on the Surface Increases Power Generation**

### Quality Guarantee

25-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

\* Subject to the terms and conditions contained in the applicable Warranty Statement.  
Also this 25-year limited product warranty is available only for products installed and operating on residential rooftops in Australia.



### 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



### Lower Degradation Rate

First-year ≤1%, 2-30 year ≤0.4%



### Lower Temp. Coefficient

More power generation under high-temperature



### Better Dim Light Performance

Excellent performance under dim light

DHN-54X16/BF/FS

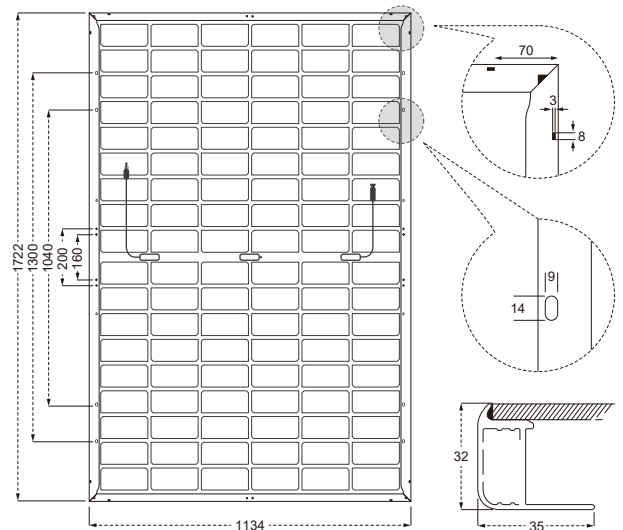
# 440W



## 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	3.2mm High Transmission, Antireflection Coating
Junction box	IP68, 3 Bypass Diodes
Connector	PV5e, Changshu Friends Connector Technology Co.,Ltd Customized Connectors
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	25A
Snow load, frontside/Wind load, backside	5400Pa/2400Pa
Nominal operating cell temperature	45°C±2°C
Application level	Class A

## Electrical Characteristics

Module Type	DHN-54X16/BF/FS	
	STC	NOCT
Maximum Power (Pmax)	440	331
Open-circuit Voltage (Voc)	38.4	36.48
Maximum Power Voltage (Vmp)	32.9	31.26
Short-Circuit Current (Isc)	13.96	11.27
Maximum Power Current (Imp)	13.37	10.59
Module Efficiency (STC)	22.53	
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

Power Tolerance: 0~+5W, Tolerances: Pmax=±3%, Voc=±3%, Isc±3%

Temperature Coefficient of Isc: 0.046%/°C, Temperature Coefficient of Voc: -0.25%/°C, Temperature Coefficient of Pmax: -0.30%/°C

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

5%	Maximum Power (Pmax)	462
	Module Efficiency (%)	23.66
15%	Maximum Power (Pmax)	506
	Module Efficiency (%)	25.91
25%	Maximum Power (Pmax)	550
	Module Efficiency (%)	28.17

## I-V Curve

