

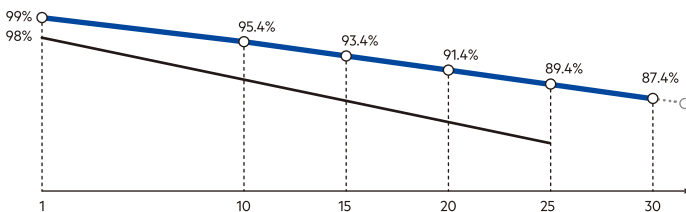
DHN-54X16/FS(BB)  
**425~440W**

# Full Screen P V M o d u l e

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



Global Patented Full Screen Technology,  
no dust or snow accumulation, increase power generation by 6-15%



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



TOPCon cells have a lower decay rate,  
≤ 1% in the first year and ≤ 0.4% in the second year



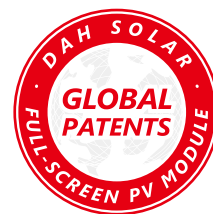
Lower temperature coefficient, better high-temperature resistance,  
reduced power loss, and better high-temperature resistance



LECO laser assisted sintering technology,  
reduces contact resistance and improves efficiency by 0.2% -0.5%

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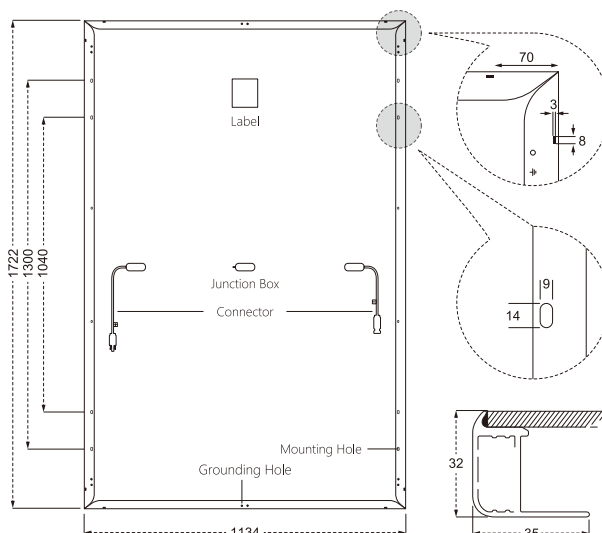
## Mechanical Specification

Cable	4.0mm <sup>2</sup> , 300/200mm 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	20.1kg
Cells Type	N-type 182×91mm
Dimension (L×W×T)	1722×1134×32mm
Packing	34pcs/pallet, 884pcs/40HQ

## 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

## Design



## STC — Electrical Characteristics

Module Type	DHN-54X16/FS(BB)			
Maximum Power (P <sub>max</sub> /W)	425	430	435	440
Open-circuit Voltage (V <sub>oc</sub> /V)	37.8	38.0	38.2	38.4
Maximum Power Voltage (V <sub>mp</sub> /V)	32.3	32.5	32.7	32.9
Short-circuit Current (I <sub>sc</sub> /A)	13.78	13.84	13.90	13.96
Maximum Power Current (I <sub>mp</sub> /A)	13.16	13.23	13.30	13.37
Module Efficiency (%)	21.76	22.02	22.28	22.53

Power Tolerance: 0~+5W, Temperature Coefficient of I<sub>sc</sub>: 0.046%/°C, Temperature Coefficient of V<sub>oc</sub>: -0.25%/°C, Temperature Coefficient of P<sub>max</sub>: -0.29%/°C

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

## NOCT — Electrical Characteristics

Maximum Power (P <sub>max</sub> /W)	320	323	327	331
Open-circuit Voltage (V <sub>oc</sub> /V)	35.91	36.10	36.29	36.48
Maximum Power Voltage (V <sub>mp</sub> /V)	30.69	30.88	31.07	31.26
Short-circuit Current (I <sub>sc</sub> /A)	11.13	11.17	11.22	11.27
Maximum Power Current (I <sub>mp</sub> /A)	10.42	10.47	10.53	10.59

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

## I-V Curve

