DAH Solar
www.dahsolarpv.com

TIER 1
BloombergNEF

DAH SOLAR GLOBAL PATENTS FULL-SCREEN PV MODULE

DHN-60X16/FS(BW)

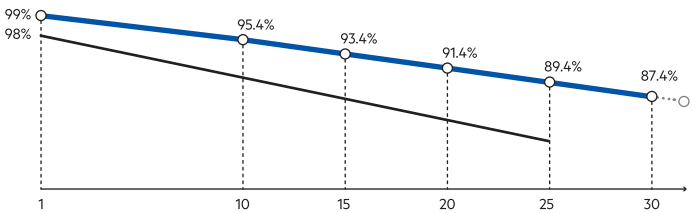
475~490W

[Full Screen PV Module]

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

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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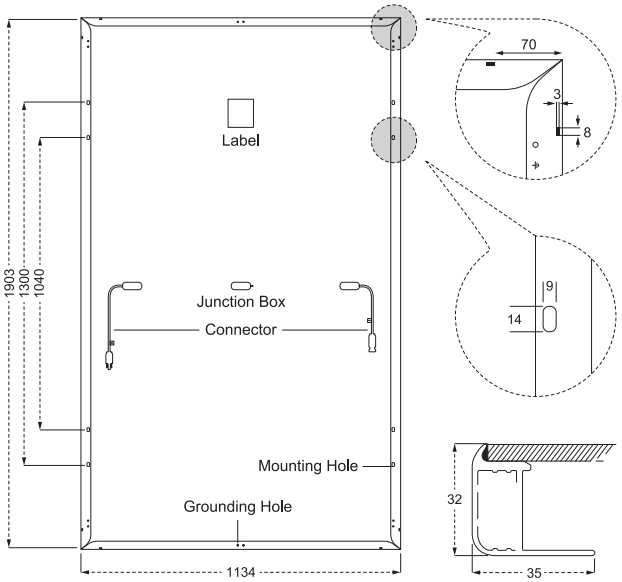
Mechanical Specification

Cable	4.0mm2, 300/200mm in length,
(Including connector)	length can be customized
No.of Cells	120 (6×20)
Glass	3.2mm High Transmission, Antireflection Coating
Junction box	IP68, 3 Bypass Diodes
Connector	MC4 Compatible
Weight	21.6kg
Cells Type	N-type 182×91mm
Dimension (L×W×T)	1903×1134×32mm
Packing	34pcs/Pallet, 816pcs/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

STC——Electrical Characteristics

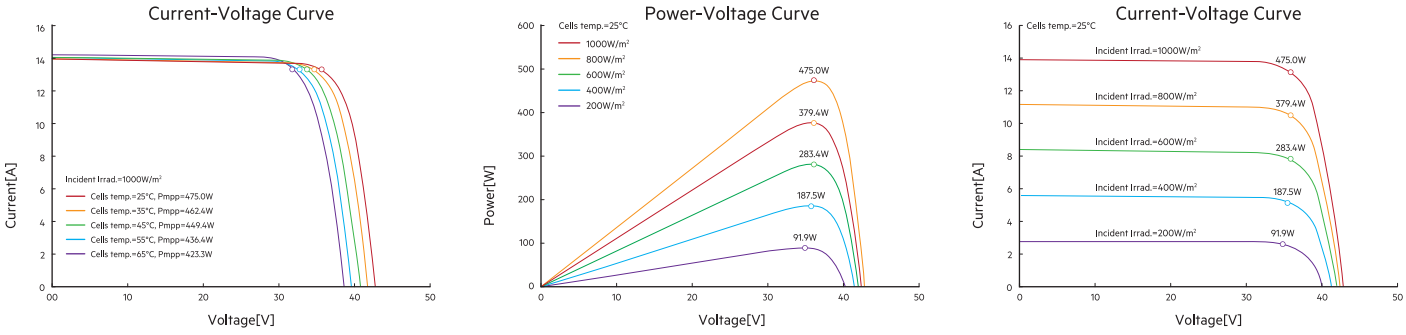
Module Type	DHN-54X16/FS(BW)			
Maximum Power (Pmax/W)	475	480	485	490
Open-circuit Voltage (Voc/V)	42.6	42.8	43.0	43.2
Maximum Power Voltage (Vmp/V)	36.2	36.4	36.6	36.8
Short-circuit Current (Isc/A)	13.96	14.02	14.08	14.14
Maximum Power Current (Imp/A)	13.12	13.19	13.25	13.32
Module Efficiency (%)	22.01	22.24	22.47	22.71

Power Tolerance: 0~+5W, Temperature Coefficient of Isc: 0.046%/°C, Temperature Coefficient of Voc: -0.25%/°C, Temperature Coefficient of Pmax: -0.29%/°C

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

NOCT——Electrical Characteristics

Maximum Power (Pmax/W)	357	361	365	368
Open-circuit Voltage (Voc/V)	40.5	40.7	40.9	41.0
Maximum Power Voltage (Vmp/V)	34.4	34.6	34.8	35.0
Short-circuit Current (Isc/A)	11.27	11.32	11.37	11.42
Maximum Power Current (Imp/A)	10.39	10.44	10.49	10.54

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

I-V Curve