DAH Solar | Full-Screen PV Module

en.dahsolar.com

DHN-54Z16/FS(BB)

490~520W

Full-Screen Single Glass PV Module

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

25 Material & technology warranty

30 Linear power output warranty

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

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

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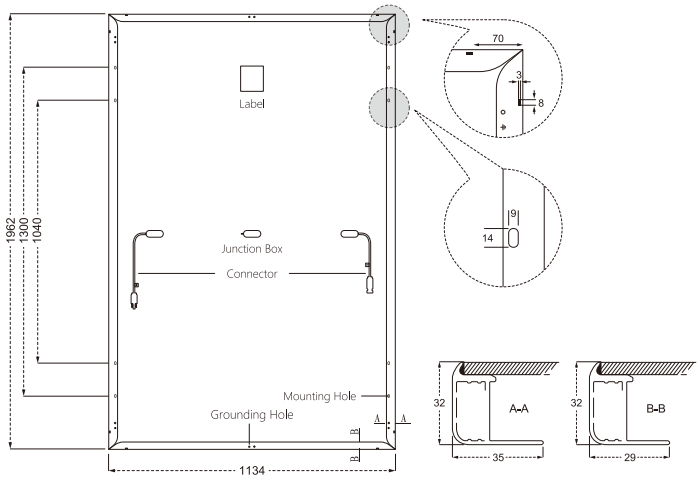
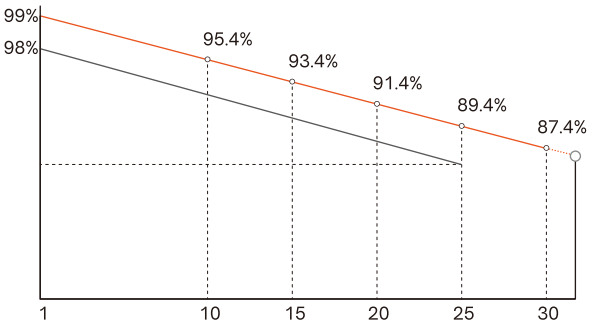
Design



30-Year Linear Power Output Warranty



— DAH Solar linear power output guarantee
— Standard linear power output guarantee

Mechanical Specification

No.of Cells	108 (6×18)
Weight	23.3kg
Cells Type	N-type 182×105mm
Dimension (L×W×T)	1962×1134×32mm
Packing	34pcs/Pallet, 816pcs/40HQ

Cable(Including connector)	4.0mm², 300/200mm in length, length can be customized
Glass	3.2mm High Transmission, Antireflection Coating
Junction Box	IP68, 3 Bypass Diodes
Connector	MC4 Compatible

STC-Electrical Characteristics

Module Type	DHN-54Z16/FS(BB)						
Maximum Power (Pmax/W)	490	495	500	505	510	515	520
Open-circuit Voltage (Voc/V)	39.5	39.7	39.9	40.1	40.3	40.5	40.7
Maximum Power Voltage (Vmp/V)	33.5	33.7	33.9	34.1	34.3	34.5	34.7
Short-circuit Current (Isc/A)	15.58	15.64	15.70	15.76	15.82	15.88	15.94
Maximum Power Current (Imp/A)	14.63	14.69	14.75	14.81	14.87	14.93	14.99
Module Efficiency (%)	22.02	22.25	22.47	22.70	22.92	23.15	23.37

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

NOCT-Electrical Characteristics

Maximum Power (Pmax/W)	368	372	376	380	384	387	391
Open-circuit Voltage (Voc/V)	37.5	37.7	37.9	38.1	38.3	38.5	38.7
Maximum Power Voltage (Vmp/V)	31.8	32.0	32.2	32.4	32.6	32.8	33.0
Short-circuit Current (Isc/A)	12.58	12.63	12.68	12.72	12.77	12.82	12.87
Maximum Power Current (Imp/A)	11.58	11.63	11.68	11.72	11.77	11.82	11.86

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

Operating Parameters

Maximum System Voltage	1500V DC
Operating Temperature	-40 ~ +85°C
Maximum Series Fuse Rating	25A
Nominal Operating Cell Temperature	45°C±2°C
Application Level	Class A

Temperature Coefficient

Temperature Coefficient of Isc (αIsc)	0.046%/°C
Temperature Coefficient of Voc (βVoc)	-0.25%/°C
Temperature Coefficient of Pmax (γPmp)	-0.29%/°C
Snow load, frontside / Wind load, backside	5400Pa/2400Pa