DAH Solar | Full Screen PV Module

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DAH SOLAR GLOBAL PATENTS FULL-SCREEN PV MODULE

TIER 1 BloombergNEF

DHN-72X16/DG/FS

575~590W

Full-Screen Double 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

15 Material & technology warranty

30 Linear power output warranty

Frameless design, installable both vertically & horizontally,
No water, no dust, snow slide fast, power generation increased by 6-15%

TOPCon cells double-sided rate up to 85% and
more back power generation by 5-25%

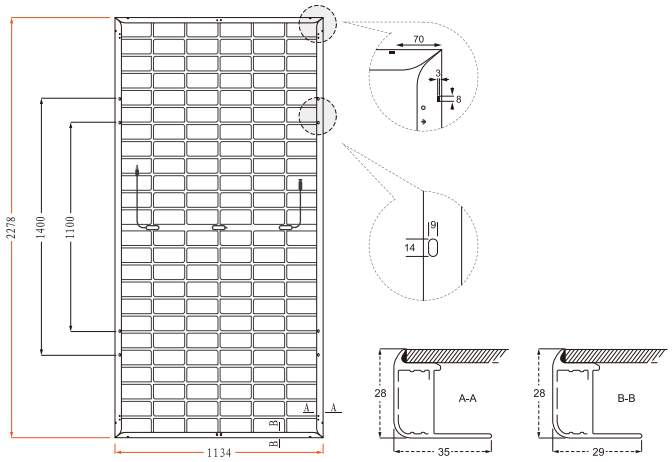
Double-glass Technology,
higher encapsulation blocking and mechanical strength

Higher performance in anti hidden cracking,
acid and alkali, salt spray, water vapor, UV, PID

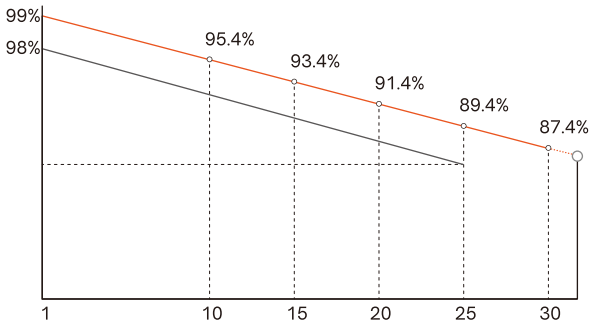
TOPCon cells, lower attenuation,
better temperature coefficient & dim ligh performance

DHN-72X16/DG/FS 575~590W

Design



30-Year Linear Power Output Warranty



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

Mechanical Specification

No.of Cells	144 (6×24)
Weight	31.4kg
Cells Type	N-type 182×91mm
Dimension (L×W×T)	2278×1134×28mm
Packing	38pcs/pallet, 760pcs/40HQ

Cable (Including connector)	4.0mm², 300/200mm in length, length can be customized
Glass	2.0mm High Transmission, Antireflection Coating
Junction Box	IP68, 3 Bypass Diodes
Connector	MC4 Compatible

Electrical Characteristics

Module Type	DHN-72X16/DG/FS							
Test conditions	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power (Pmax/W)	575	432	580	436	585	440	590	444
Open-circuit Voltage (Voc/V)	51.2	48.6	51.4	48.8	51.6	49.0	51.8	49.2
Maximum Power Voltage (Vmp/V)	43.4	41.2	43.6	41.4	43.8	41.6	44.0	41.8
Short-circuit Current (Isc/A)	14.08	11.37	14.14	11.42	14.20	11.46	14.26	11.51
Maximum Power Current (Imp/A)	13.25	10.49	13.30	10.53	13.36	10.57	13.41	10.61
Module Efficiency (STC)	22.26%		22.45%		22.65%		22.84%	
Refer Bifacial Factor	80±5%							

STC-Standard Test Environment: Irradiance 1000W/m², Cell temperature 25°C, Spectrum AM1.5
NOC-Standard Test Environment: Irradiance 800W/m², Ambient temperature 20°C, Spectrum AM1.5, Wind speed 1m/s

Double-Sided Power Generation Parameters (Rear gain)

5%	Maximum Power (Pmax)	604	609	614.25	619.5
	Module Efficiency (%)	23.37	23.57	23.78	23.98
15%	Maximum Power (Pmax)	661	667	673	679
	Module Efficiency (%)	25.60	25.82	26.04	26.27
25%	Maximum Power (Pmax)	719	725	731	738
	Module Efficiency (%)	27.82	28.07	28.31	28.55

Operating Parameters

Maximum System Voltage	1500V DC
Operating Temperature	-40 ~ +85°C
Maximum Series Fuse Rating	30A
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