

DHN-54Z16/DG/FS(BB) 490~520W

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



Material & technology warranty



Linear power output warranty



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



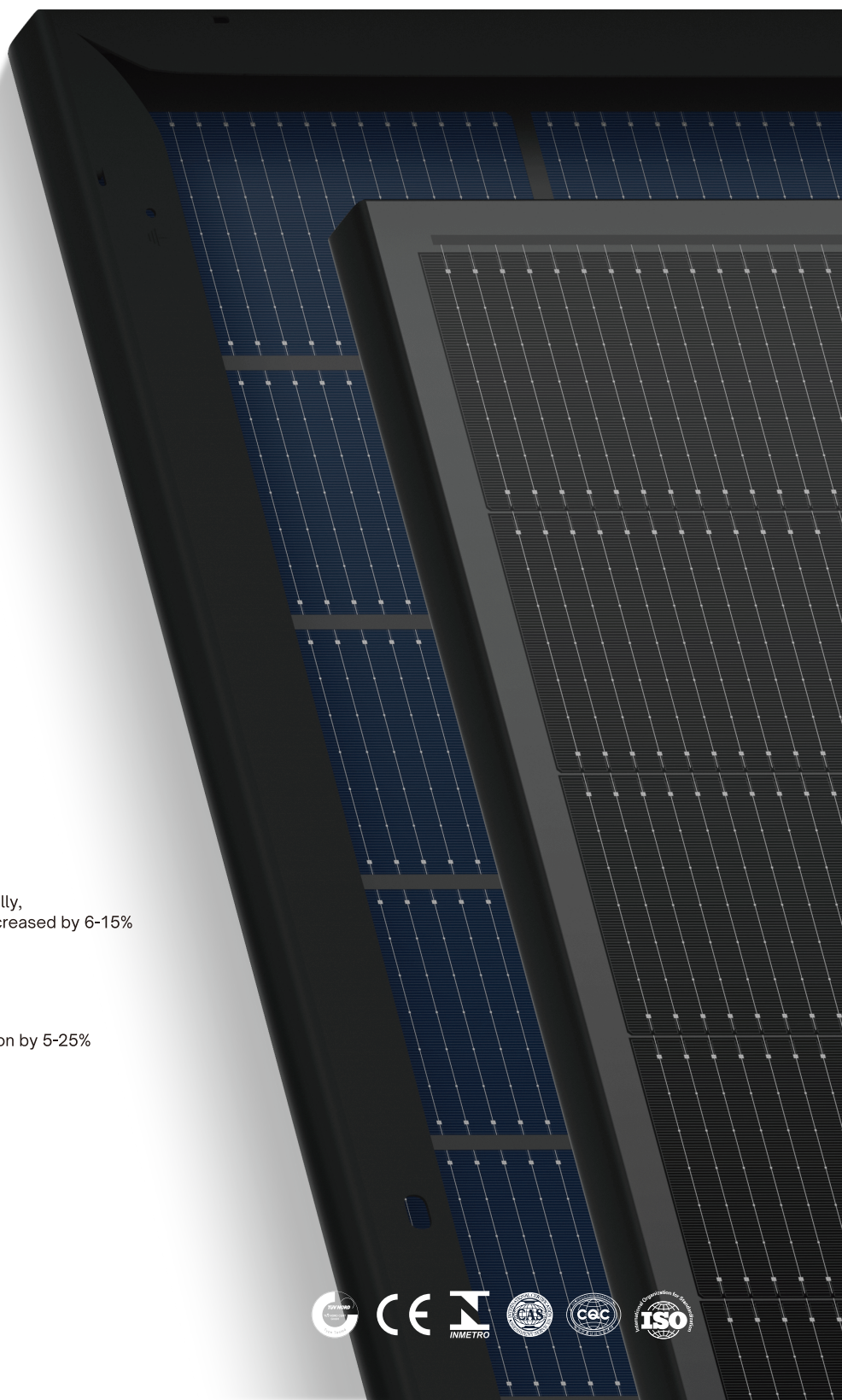
Bifacial Rate Up to 85% and More Back Power Generation by 5-25%



Double-glass Technology,
higher encapsulation blocking and mechanical strength

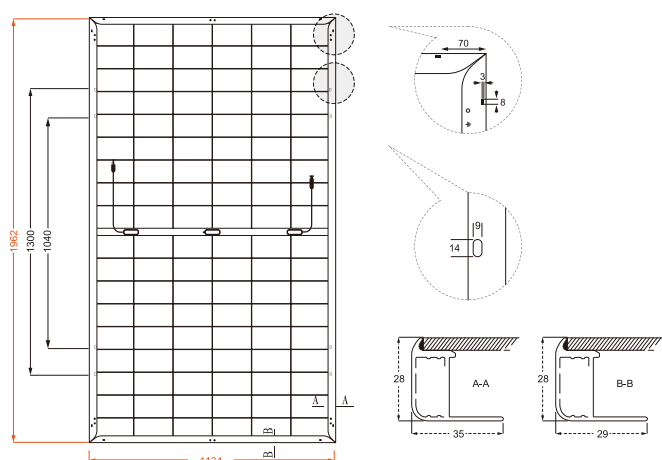


TOPCon cells, lower attenuation,
better temperature coefficient & dim light performance

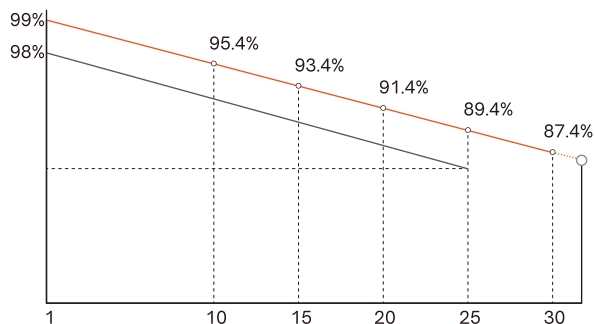


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Design



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	26.4kg
Cells Type	N-type 182×105mm
Dimension (L×W×T)	1962×1134×28mm
Packing	37pcs/Pallet, 888pcs/40HQ

Cable(Including connector)	4.0mm ² , 1.25m 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-54Z16/DG/FS(BB)													
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Test conditions	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power (Pmax/W)	490	368	495	372	500	376	505	380	510	384	515	387	520	391
Open-circuit Voltage (Voc/V)	39.5	37.5	39.7	37.7	39.9	37.9	40.1	38.1	40.3	38.3	40.5	38.5	40.7	38.7
Maximum Power Voltage (Vmp/V)	33.5	31.8	33.7	32.0	33.9	32.2	34.1	32.4	34.3	32.6	34.5	32.8	34.7	33.0
Short-circuit Current (Isc/A)	15.58	12.58	15.64	12.63	15.70	12.68	15.76	12.72	15.82	12.77	15.88	12.82	15.94	12.87
Maximum Power Current (Imp/A)	14.63	11.58	14.69	11.63	14.75	11.68	14.81	11.72	14.87	11.77	14.93	11.82	14.99	11.86
Module Efficiency (STC)	22.02		22.25		22.47		22.70		22.92		23.15		23.37	
Refer Bifacial Factor	80±5%													

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

NOCT-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)	515	520	525	530	536	541	546
	Module Efficiency (%)	23.1	23.4	23.6	23.8	24.1	24.3	24.5
15%	Maximum Power (Pmax)	563.5	569.3	575.0	580.8	586.5	592.3	598.0
	Module Efficiency (%)	25.3	25.6	25.8	26.1	26.4	26.6	26.9
25%	Maximum Power (Pmax)	612.5	618.8	625.0	631.3	637.5	643.8	650.0
	Module Efficiency (%)	27.5	27.8	28.1	28.4	28.7	28.9	29.2

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 (Isc)	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