

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

High Efficiency Double Glass PV Module

产品体系认证

IEC 61215 / IEC 61730 / CE / INMETRO
ISO 45001
2018/职业健康安全管理体系
ISO 14001
2015/环境管理体系
ISO 9001
2015/质量管理体系

 产品材料与工艺性质保

 组件线性功率输出质保



Bifacial 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



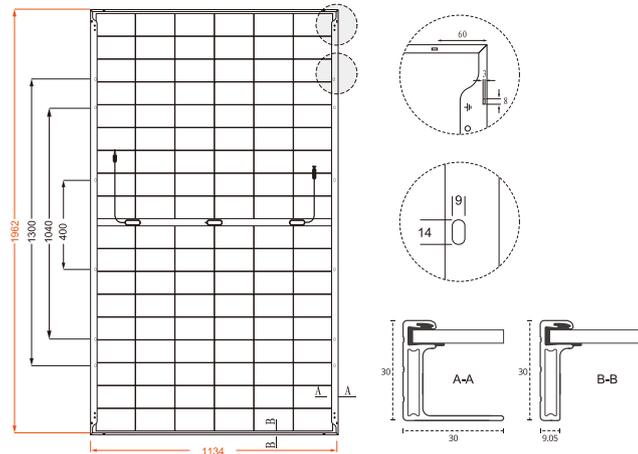
TOPCon cells, lower attenuation, better temperature coefficient & dim light performance



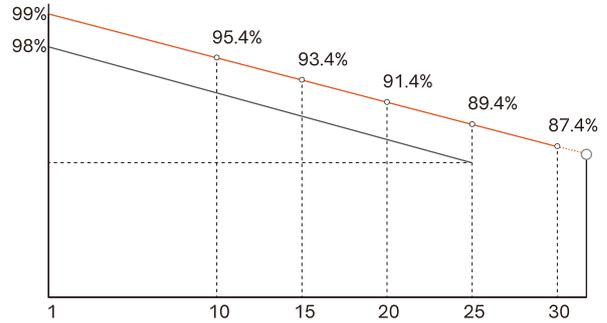
LECO laser assisted sintering technology, reduces contact resistance and improves efficiency by 0.2% -0.5%

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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	26.6kg
Cells Type	N-type 182×105mm
Dimension (L×W×T)	1962×1134×30mm
Packing	36pcs/Pallet, 864pcs/40HQ

Cable(Including connector)	4.0mm ² , 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-54Z16/DG(BW)													
	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 (ΔIsc)	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