

# DHN-54Z16/DG(BW)

# 480~510W

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

15 产品材料与工艺性质保

30 组件线性功率输出质保



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



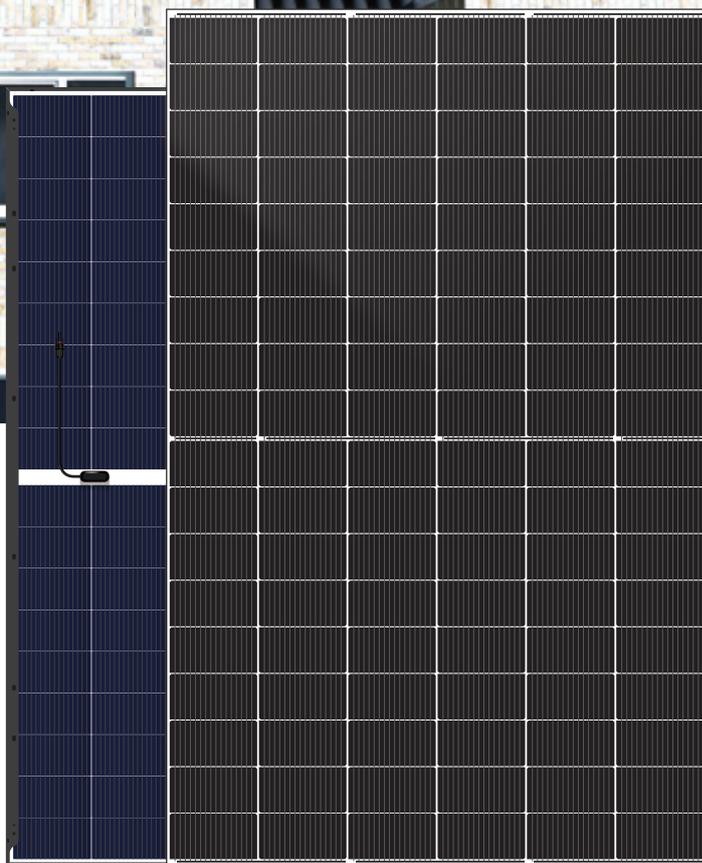
Higher performance in anti hidden cracking, acid and alkali, salt spray, water vapor, UV, PID



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

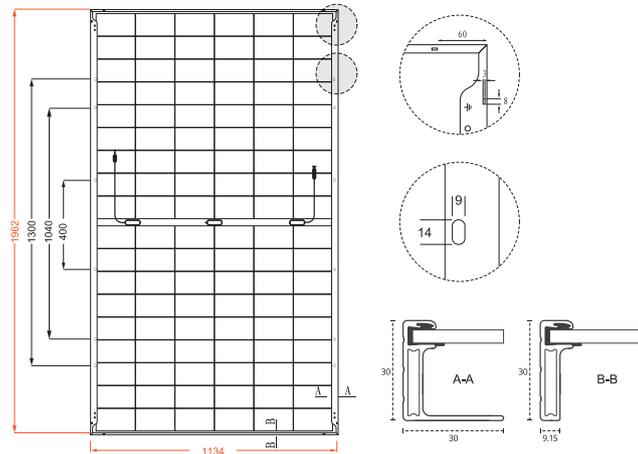


LECO laser assisted sintering technology, reduces contact resistance and improves efficiency by 0.2% -0.5%

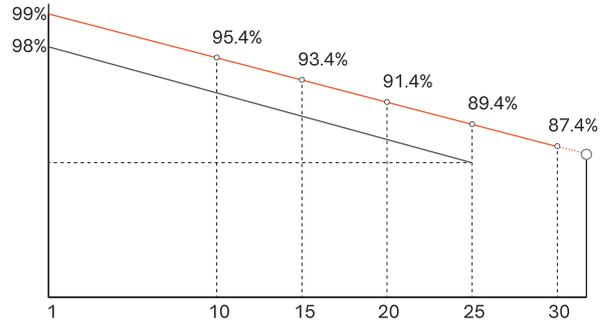


# DHN-54Z16/DG(BW) 480~510W

## 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 <sup>2</sup> , 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	
Test conditions	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power (Pmax/W)	480	361	485	365	490	368	495	372	500	376	505	380	510	384	510	384
Open-circuit Voltage (Voc/V)	39.1	37.1	39.3	37.3	39.5	37.5	39.7	37.7	39.9	37.9	40.1	38.1	40.3	38.3	40.3	38.3
Maximum Power Voltage (Vmp/V)	33.1	31.4	33.3	31.6	33.5	31.8	33.7	32.0	33.9	32.2	34.1	32.4	34.3	32.6	34.3	32.6
Short-circuit Current (Isc/A)	15.46	12.48	15.52	12.53	15.58	12.58	15.64	12.63	15.70	12.68	15.76	12.72	15.82	12.77	15.82	12.77
Maximum Power Current (Imp/A)	14.50	11.48	14.56	11.53	14.63	11.58	14.69	11.63	14.75	11.68	14.81	11.72	14.87	11.77	14.87	11.77
Module Efficiency (STC)	21.57		21.80		22.02		22.25		22.47		22.70		22.92		22.92	
Refer Bifacial Factor	80±5%															

STC-Standard Test Environment: Irradiance 1000W/m<sup>2</sup>, Cell temperature 25°C, Spectrum AM1.5

NOCT-Standard Test Environment: Irradiance 800W/m<sup>2</sup>, Ambient temperature 20°C, Spectrum AM1.5, Wind speed 1m/s

## Double-Sided Power Generation Parameters (Rear gain)

5%	Maximum Power (Pmax)	504	509	515	520	525	530	536
	Module Efficiency (%)	22.7	22.9	23.1	23.4	23.6	23.8	24.1
15%	Maximum Power (Pmax)	552.0	557.8	563.5	569.3	575.0	580.8	586.5
	Module Efficiency (%)	24.8	25.1	25.3	25.6	25.8	26.1	26.4
25%	Maximum Power (Pmax)	600.0	606.3	612.5	618.8	625.0	631.3	637.5
	Module Efficiency (%)	27.0	27.2	27.5	27.8	28.1	28.4	28.7

## 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 (dIsc)	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