

DHN-48Z16/DG(BB) 450~465W

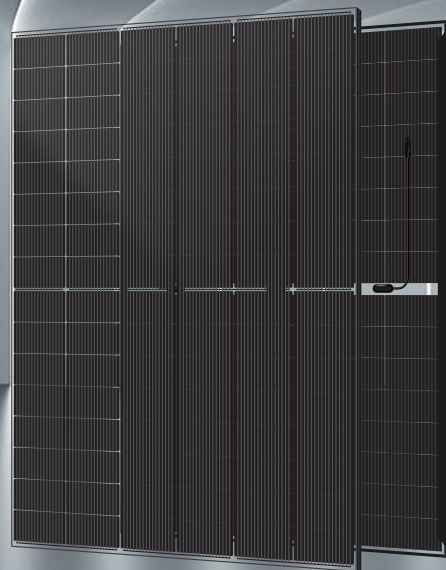
BIFACIAL DOUBLE GLASS PV MODULE

25 Years

Material & technology
warranty

30 Years

Linear power output
warranty



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



Higher power, longer service life linear power warranty for 30 years



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



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

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

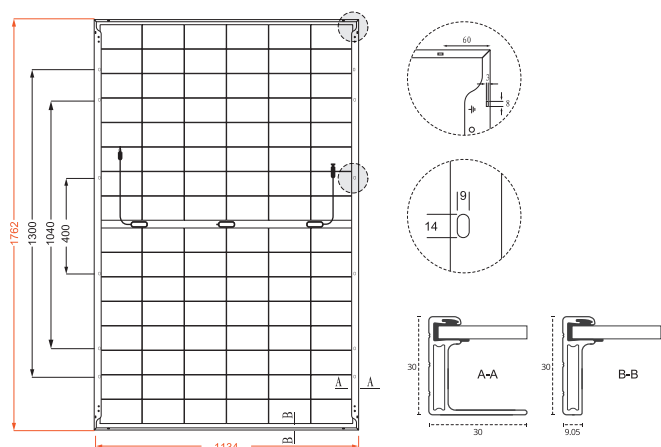
ISO 9001

2015/Quality management system

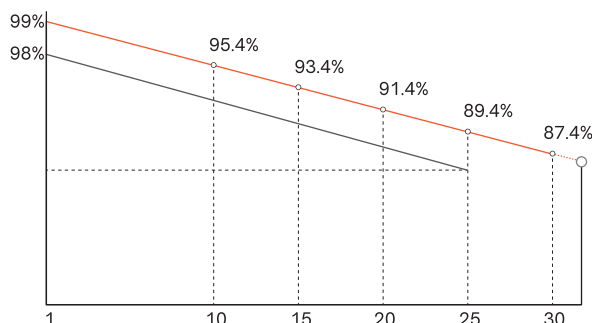


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Design



30-Year Linear Power Output Warranty



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

Mechanical Specification

No. of Cells	96 (6×16)
Weight	23.9kg
Cells Type	N-type 182×105mm
Dimension (L×W×T)	1762×1134×30mm
Packing	36pcs/Pallet, 936pcs/40HQ

Cable(Including connector)	4.0mm ² , 1m 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-48Z16/DG(BB)							
Test conditions	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power (Pmax/W)	450	338	455	342	460	346	465	350
Open-circuit Voltage (Voc/V)	36.0	34.2	36.2	34.4	36.4	34.6	36.6	34.8
Maximum Power Voltage (Vmp/V)	30.6	29.1	30.8	29.3	31.0	29.5	31.2	29.6
Short-circuit Current (Isc/A)	15.64	12.63	15.70	12.68	15.76	12.72	15.82	12.77
Maximum Power Current (Imp/A)	14.71	11.64	14.77	11.69	14.84	11.75	14.90	11.80
Module Efficiency (STC)	22.52		22.77		23.02		23.27	
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 (P _{max})	473	478	483	488
	Module Efficiency (%)	23.6	23.9	24.2	24.4
15%	Maximum Power (P _{max})	517.5	523.3	529.0	534.8
	Module Efficiency (%)	25.9	26.2	26.5	26.8
25%	Maximum Power (P _{max})	562.5	568.8	575.0	581.3
	Module Efficiency (%)	28.2	28.5	28.8	29.1

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 I _{sc} (ΔI _{sc})	0.046%/°C
Temperature Coefficient of V _{oc} (ΔV _{oc})	-0.25%/°C
Temperature Coefficient of P _{max} (ΔP _{mp})	-0.29%/°C
Snow load, frontside / Wind load, backside	5400Pa/2400Pa