DAH Solar
en.dahsolar.com



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

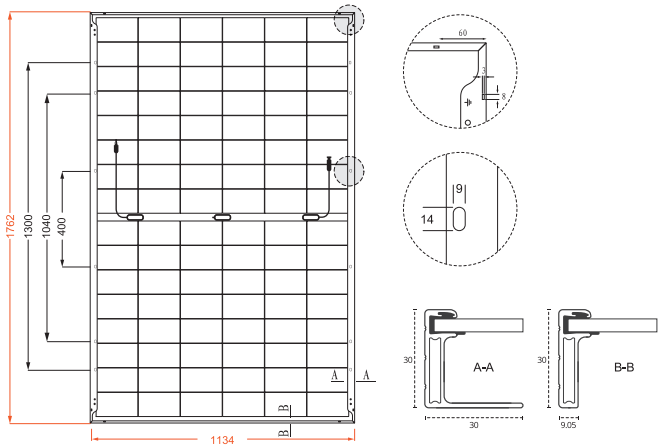
Comprehensive Products & System Certificates

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

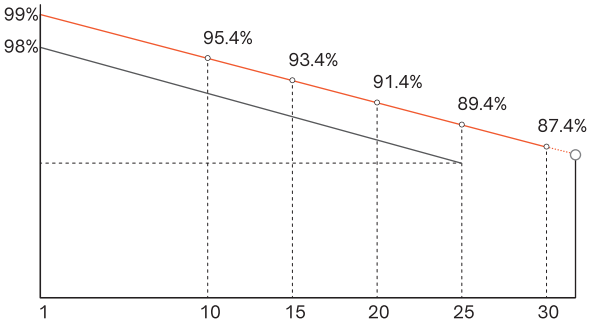
DAH Solar
Add: No.1 Yaoyuan Road, Luyang District, Hefei City, Anhui, China Facebook: www.facebook.com/DAHSolar · E-mail: sales@dahsolar.com

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

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)	4.0mm², 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 (Pmax)	473	478	483	488
	Module Efficiency (%)	23.6	23.9	24.2	24.4
15%	Maximum Power (Pmax)	517.5	523.3	529.0	534.8
	Module Efficiency (%)	25.9	26.2	26.5	26.8
25%	Maximum Power (Pmax)	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 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

DAH Solar
Add: No.1 Yaoyuan Road, Luyang District, Hefei City, Anhui, China Facebook: www.facebook.com/DAHSolar · E-mail: sales@dahsolar.com