

& 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



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, water vapor, UV



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









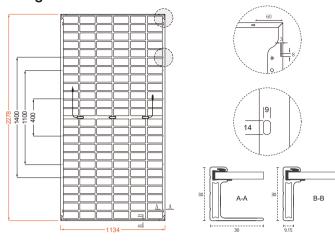






DHN-72X16/DG-590W

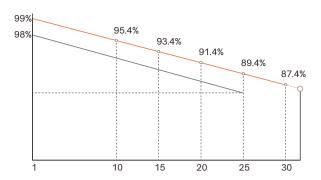
Design



Mechanical Specification

No.of Cells	144 (6×24)
Weight	31.2kg
Cells Type	N-type 182×91mm
Dimension (L×W×T)	2278×1134×30mm
Packing	36pcs/Pallet, 720pcs/40HQ

30-Year Linear Power Output Warranty



- DAH Solar linear power output guarantee
- Standard linear power output guarantee

Cable	4.0mm², 300/200mm in length,	
(Including connector)	length can be customized	
Glass	2.0mm High Transmission, Antireflection Coating	
Junction Box	IP68, 3 Bypass Diodes	
Connector	PV5e, Changshu Friends Connector Technology	
	Co.,Ltd Customized Connectors	

Electrical Characteristics	
Module Type	DHN-72X16/DG-590W
Test conditions	STC NOCT
Maximum Power (Pmax/W)	590 444
Open-circuit Voltage (Voc/V)	51.8 49.2
Maximum Power Voltage (Vmp/V)	44.0 41.8
Short-circuit Current (Isc/A)	14.26 11.51
Maximum Power Current (Imp/A)	13.41 10.61
Module Efficiency (STC)	22.84%
Refer Bifacial Factor	80±5%

STC-Standard Test Environment: Irradiance 1000W/m², Cell temperature 25°C, Spectrum AM1.5 Tolerance: Pmax=±3%, Voc=±3%, Isc=±3% NOCT-Standard Test Environment: Irradiance 800W/m², Ambient temperature 20°C, Spectrum AM1.5, Wind speed 1m/s

Electrical ratings at irradiance level at BNPI		
Rated Voc at STC (V) / tolerance ±3%	52.0	
Rated Isc at STC (A) / tolerance ±3%	15.77	
Rated Vmp at STC (V)	44.2	
Rated Imp at STC (A)	14.82	
Rated Pmax at STC (W) / tolerance±3%	655	
Bifaciality coefficient with tolerance: φlsc= 80%±5%, φVoc= 98%±2%,	φPmax= 80%±5%	

Electrical ratings at irradiance level at aBSI

Rated Isc at aBSI (A) / tolerance ±3% 17.61

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
Power sorting tolerance	0 ~ 5W

Temperature Coefficient of Isc (also)

remperature doctricient of ise (dise)	0.040707 C
Temperature Coefficient of Voc (βVoc)	-0.25%/°C
Temperature Coefficient of Pmax (γPmp)	-0.29%/°C
Fire class	CLASS A
Snow load, frontside / Wind load, backside	5400Pa/2400Pa



0.046%/°C