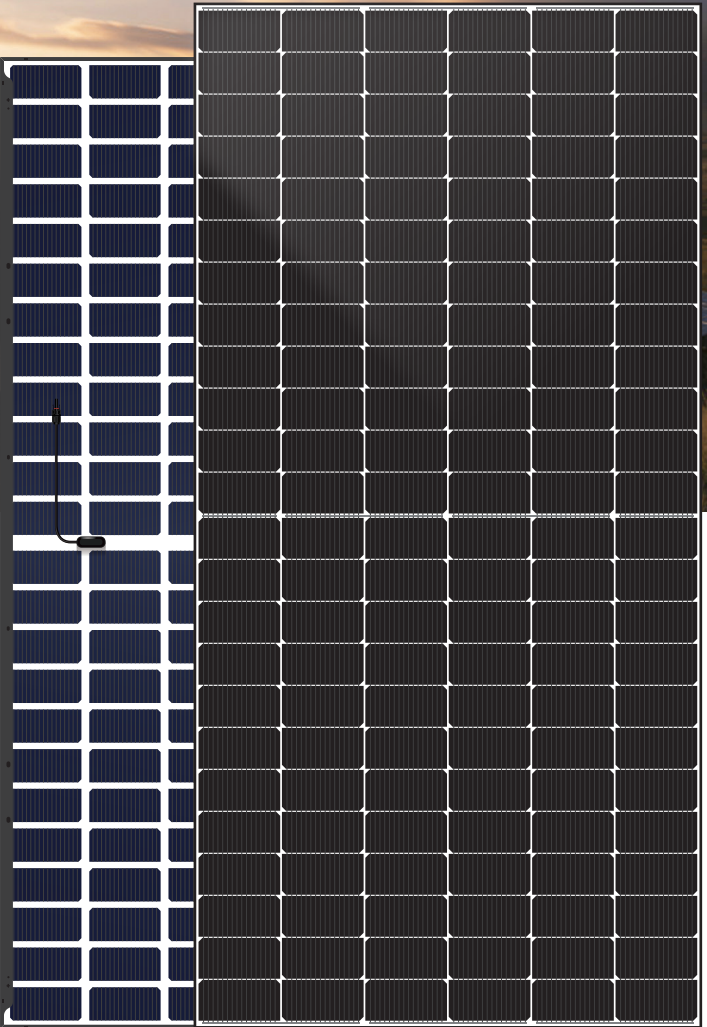


# DHN-72X16/DG(BW)

# 575~590W

High Efficiency Double Glass PV Module



## 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

 15 Material & technology warranty

 30 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



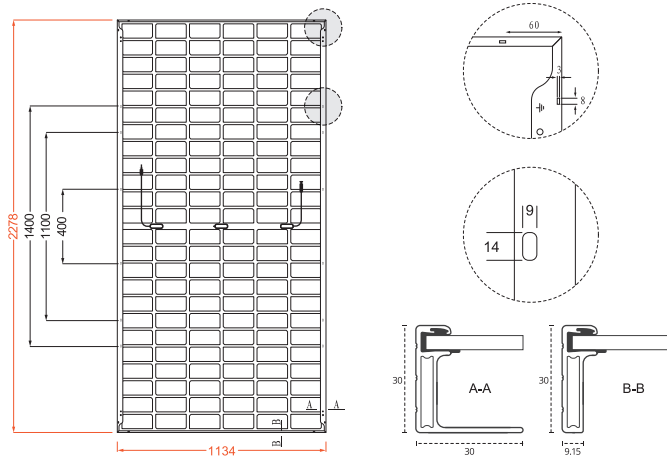
TOPCon cells, lower attenuation, better temperature coefficient & dim light performance



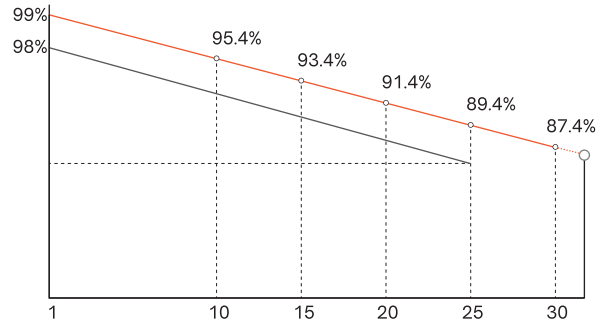
LECO laser assisted sintering technology, reduces contact resistance and improves efficiency by 0.2% -0.5%

# DHN-72X16/DG(BW) 575~590W

## Design



## 30-Year Linear Power Output Warranty



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

## 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

Cable	4.0mm <sup>2</sup> , 300/200mm in length, (including connector) 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-72X16/DG(BW)							
	STC		NOCT		STC		NOCT	
Test conditions	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power (P <sub>max</sub> /W)	575	432	580	436	585	440	590	444
Open-circuit Voltage (V <sub>oc</sub> /V)	51.2	48.6	51.4	48.8	51.6	49.0	51.8	49.2
Maximum Power Voltage (V <sub>mp</sub> /V)	43.4	41.2	43.6	41.4	43.8	41.6	44.0	41.8
Short-circuit Current (I <sub>sc</sub> /A)	14.08	11.37	14.14	11.42	14.20	11.46	14.26	11.51
Maximum Power Current (I <sub>mp</sub> /A)	13.25	10.49	13.30	10.53	13.36	10.57	13.41	10.61
Module Efficiency (STC)	22.26%		22.45%		22.65%		22.84%	
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)

Gain	Parameter	575W	580W	585W	590W
5%	Maximum Power (P <sub>max</sub> )	603.75	609	614.25	619.5
	Module Efficiency (%)	23.37	23.57	23.78	23.98
15%	Maximum Power (P <sub>max</sub> )	661	667	673	679
	Module Efficiency (%)	25.60	25.82	26.04	26.27
25%	Maximum Power (P <sub>max</sub> )	719	725	731	738
	Module Efficiency (%)	27.82	28.07	28.31	28.55

## 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 <sub>sc</sub> (ΔI <sub>sc</sub> )	0.046%/°C
Temperature Coefficient of V <sub>oc</sub> (βV <sub>oc</sub> )	-0.25%/°C
Temperature Coefficient of P <sub>max</sub> (γP <sub>mp</sub> )	-0.29%/°C
Snow load, frontside / Wind load, backside	5400Pa/2400Pa