

# DHN-60X16/DG(BW)


## 475~490W


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

 25 Material & technology warranty

 30 Linear power output warranty

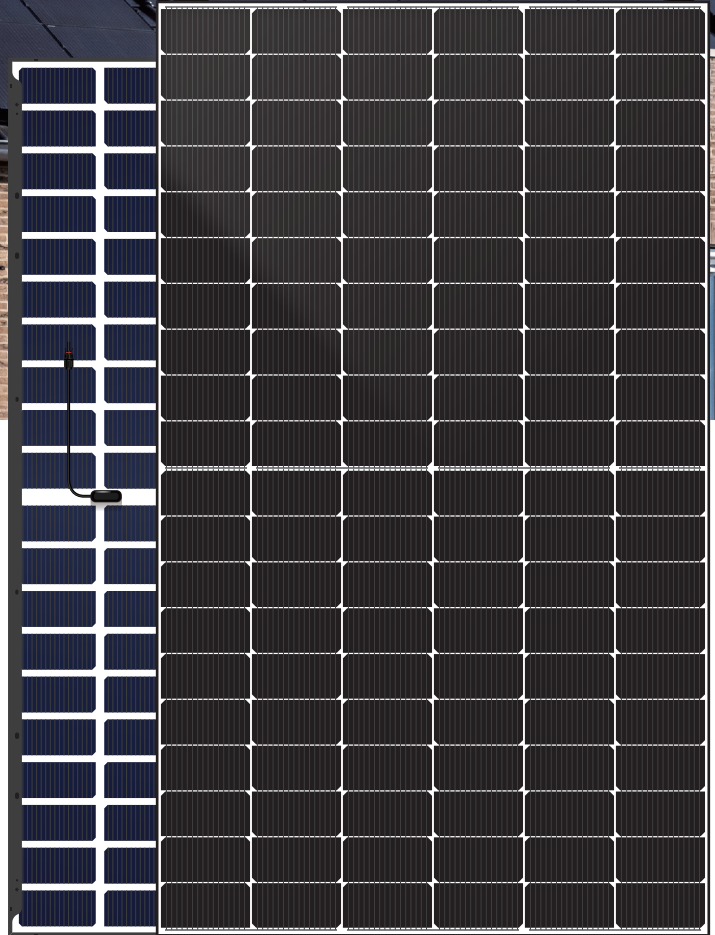
  
TOPCon cells double-sided rate up to 85% and more back power generation by 5-25%

  
Double-glass Technology, higher encapsulation blocking and mechanical strength

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

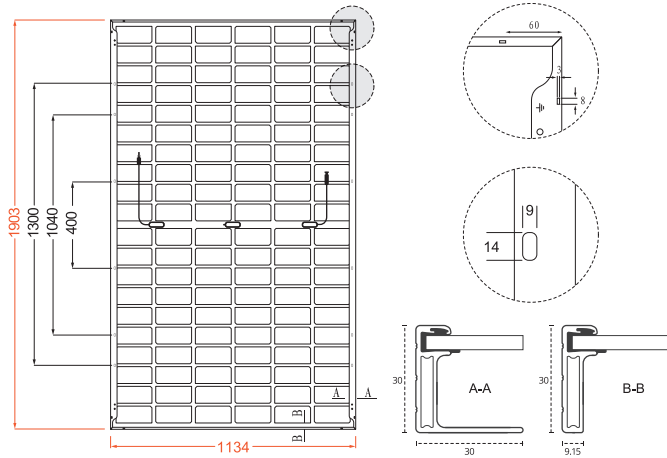
  
TOPCon cells, lower attenuation, better temperature coefficient & dim light performance

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

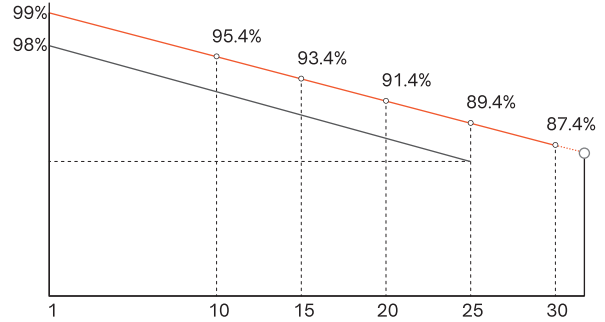


# DHN-60X16/DG(BW) 475~490W

## Design



## 30-Year Linear Power Output Warranty



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

## Mechanical Specification

No. of Cells	120 (6×20)
Weight	26kg
Cells Type	N-type 182×91mm
Dimension (L×W×T)	1903×1134×30mm
Packing	36pcs/Pallet, 864pcs/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-60X16/DG(BW)							
	STC		NOCT		STC		NOCT	
Test conditions	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power (P <sub>max</sub> /W)	475	357	480	361	485	365	490	368
Open-circuit Voltage (V <sub>oc</sub> /V)	42.6	40.47	42.8	40.66	43.0	40.85	43.2	41.04
Maximum Power Voltage (V <sub>mp</sub> /V)	36.2	34.39	36.4	34.58	36.6	34.77	36.8	34.96
Short-circuit Current (I <sub>sc</sub> /A)	13.96	11.27	14.02	11.32	14.08	11.37	14.14	11.42
Maximum Power Current (I <sub>mp</sub> /A)	13.12	10.39	13.19	10.44	13.25	10.49	13.32	10.54
Module Efficiency (STC)	22.01%		22.24%		22.47%		22.71%	
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	475W	480W	485W	490W
5%	Maximum Power (P <sub>max</sub> )	499	504	509	515
	Module Efficiency (%)	23.11	23.35	23.60	23.84
15%	Maximum Power (P <sub>max</sub> )	546	552	558	564
	Module Efficiency (%)	25.31	25.58	25.85	26.11
25%	Maximum Power (P <sub>max</sub> )	594	600	606	613
	Module Efficiency (%)	27.51	27.80	28.09	28.38

## 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> (dI <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