

# DHN-78X16/DG

# 620~640W

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



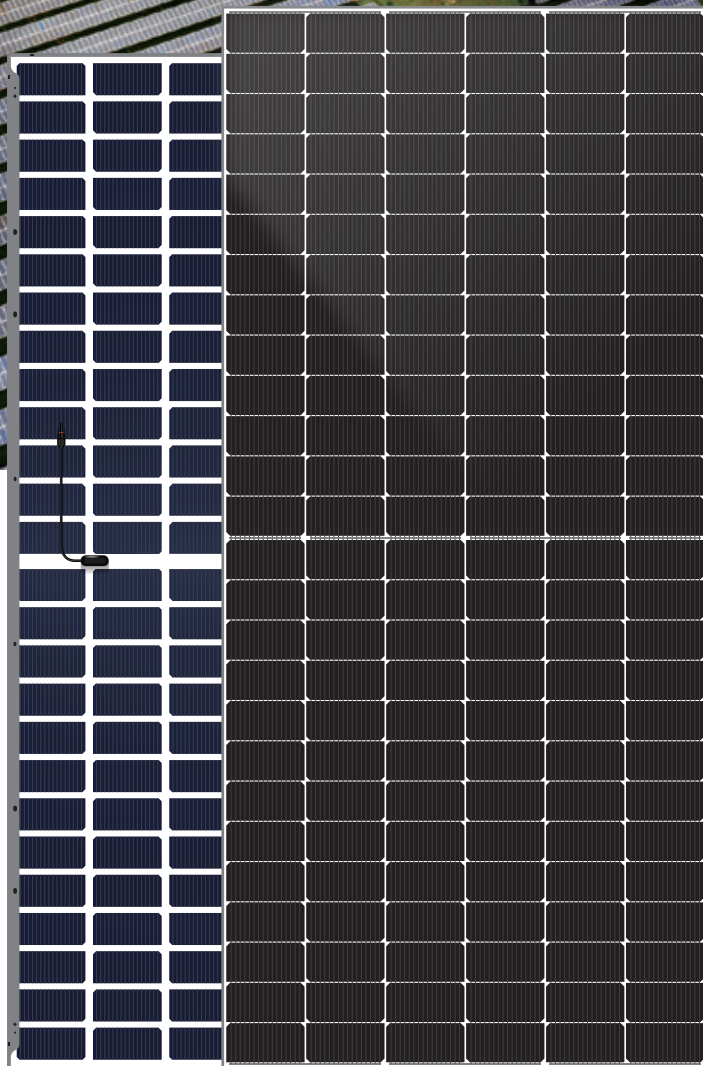
Higher performance in anti hidden cracking, acid and alkali, salt spray, water vapor, UV, PID



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

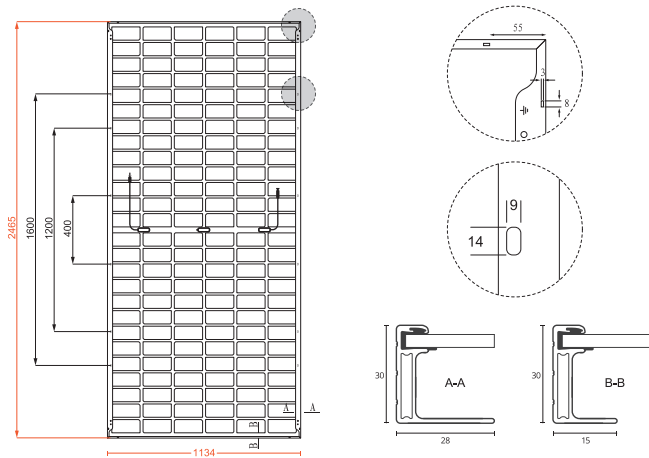


LECO laser assisted sintering technology, reduces contact resistance and improves efficiency by 0.2% -0.5%

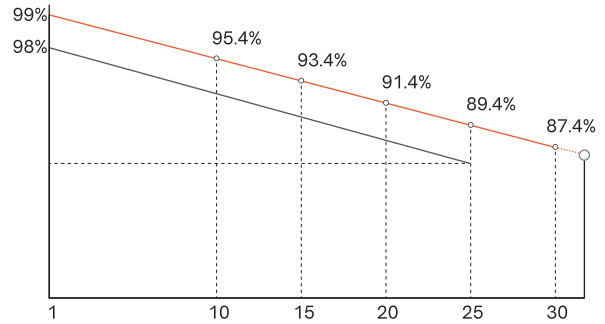


# DHN-78X16/DG 620~640W

## Design



## 30-Year Linear Power Output Warranty



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

## Mechanical Specification

No. of Cells	156 (6×26)
Weight	34.2kg
Cells Type	N-type 182×91mm
Dimension (L×W×T)	2465×1134×30mm
Packing	36pcs/Pallet, 576pcs/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-78X16/DG									
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Test conditions	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power (P <sub>max</sub> /W)	620	466	625	470	630	474	635	478	640	481
Open-circuit Voltage (V <sub>oc</sub> /V)	55.6	52.8	55.8	53.0	56.0	53.2	56.2	53.4	56.4	53.6
Maximum Power Voltage (V <sub>mp</sub> /V)	46.8	44.5	47.0	44.7	47.2	44.8	47.4	45.0	47.6	45.2
Short-circuit Current (I <sub>sc</sub> /A)	14.08	11.37	14.14	11.42	14.20	11.46	14.26	11.51	14.32	11.56
Maximum Power Current (I <sub>mp</sub> /A)	13.25	10.49	13.30	10.53	13.35	10.57	13.40	10.60	13.45	10.64
Module Efficiency (STC)	22.18%		22.36%		22.54%		22.72%		22.90%	
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)

5%	Maximum Power (P <sub>max</sub> )	651	656.25	661.5	666.75	672
	Module Efficiency (%)	23.29	23.48	23.66	23.85	24.04
15%	Maximum Power (P <sub>max</sub> )	713	719	725	730	736
	Module Efficiency (%)	25.51	25.71	25.92	26.12	26.33
25%	Maximum Power (P <sub>max</sub> )	775	781	788	794	800
	Module Efficiency (%)	27.73	27.95	28.17	28.40	28.62

## 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> (ΔV <sub>oc</sub> )	-0.25%/°C
Temperature Coefficient of P <sub>max</sub> (ΔP <sub>mp</sub> )	-0.29%/°C
Snow load, frontside / Wind load, backside	5400Pa/2400Pa