

DHN-54X16/DG(BW)

430~440W


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

 Material & technology warranty

 Linear power output warranty

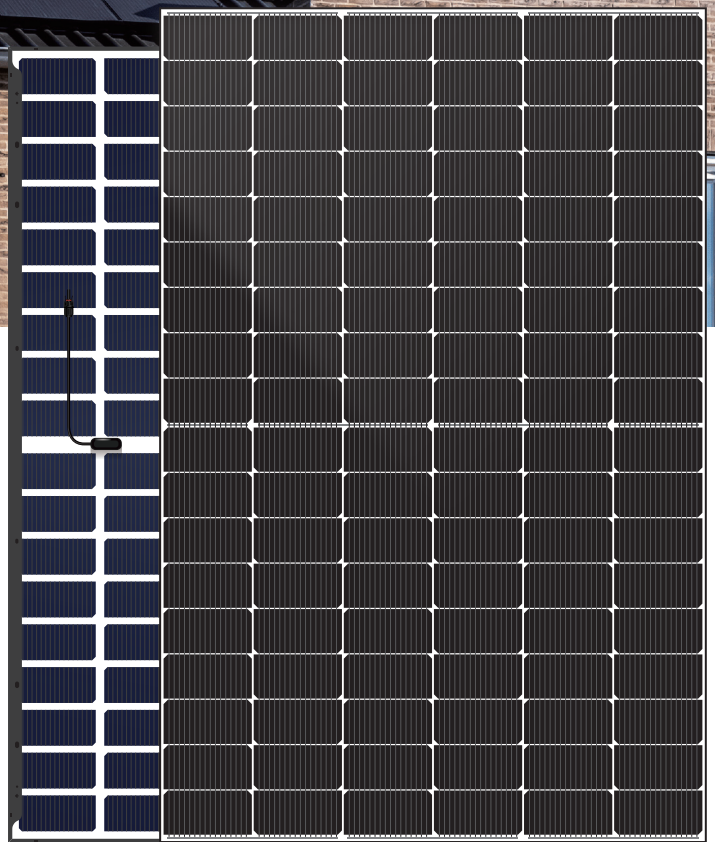

TOPCon cells double-sided rate up to 85% and more back power generation by 5-25%


Double-glass Technology, higher encapsulation blocking and mechanical strength


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

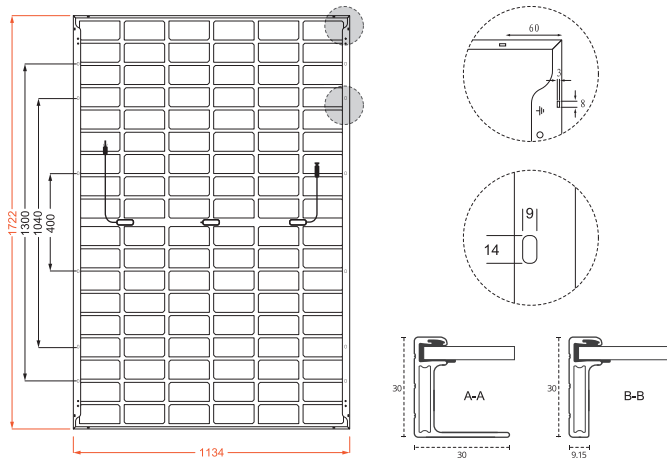

TOPCon cells, lower attenuation, better temperature coefficient & dim light performance


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

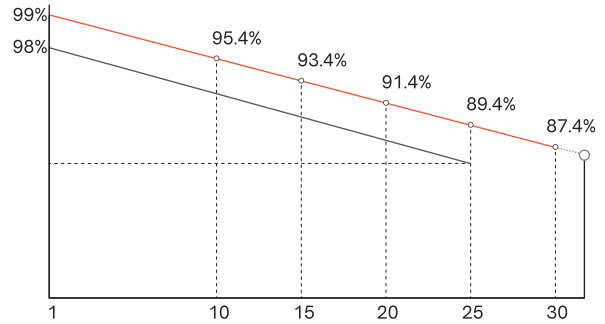


DHN-54X16/DG(BW) 430~440W

Design



30-Year Linear Power Output Warranty



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

Mechanical Specification

No. of Cells	108 (6×18)
Weight	23.5kg
Cells Type	N-type 182×91mm
Dimension (L×W×T)	1722×1134×30mm
Packing	36pcs/Pallet, 936pcs/40HQ

Cable	4.0mm ² , 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-54X16/DG(BW)							
	STC		NOCT		STC		NOCT	
Test conditions	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power (P _{max} /W)	430	323	435	327	440	331		
Open-circuit Voltage (V _{oc} /V)	38.0	36.10	38.2	36.29	38.4	36.48		
Maximum Power Voltage (V _{mp} /V)	32.5	30.88	32.7	31.07	32.9	31.26		
Short-circuit Current (I _{sc} /A)	13.84	11.17	13.90	11.22	13.96	11.27		
Maximum Power Current (I _{mp} /A)	13.23	10.47	13.30	10.53	13.37	10.59		
Module Efficiency (STC)	22.02%		22.28%		22.53%			
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 (P _{max})	452	457	462
	Module Efficiency (%)	23.12	23.39	23.66
15%	Maximum Power (P _{max})	495	500	506
	Module Efficiency (%)	25.32	25.62	25.91
25%	Maximum Power (P _{max})	538	544	550
	Module Efficiency (%)	27.53	27.85	28.17

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 _{sc} (α _{Isc})	0.046%/°C
Temperature Coefficient of V _{oc} (β _{Voc})	-0.25%/°C
Temperature Coefficient of P _{max} (γ _{Pmp})	-0.29%/°C
Snow load, frontside / Wind load, backside	5400Pa/2400Pa