

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

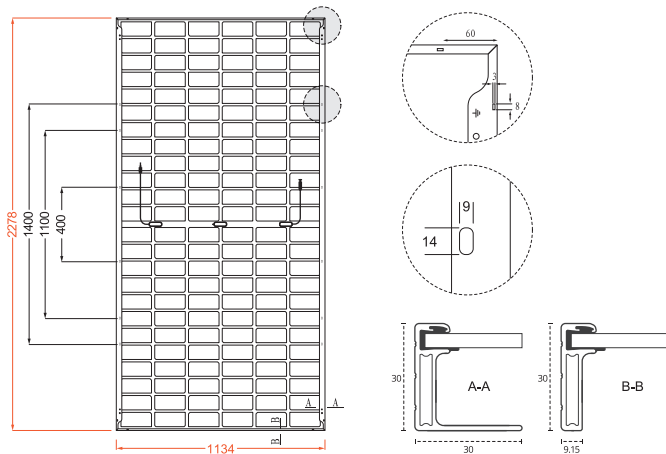


LECO laser assisted sintering technology, reduces contact resistance and improves efficiency by 0.2% -0.5%

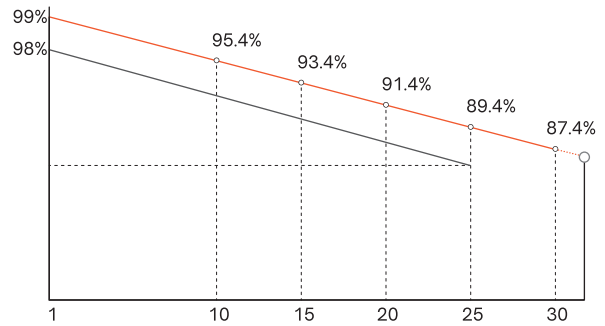


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Design



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	30.8kg
Cells Type	N-type 182×91mm
Dimension (L×W×T)	2278×1134×30mm
Packing	36pcs/Pallet, 720pcs/40HQ

Cable(Including connector)	4.0mm ² , 300/200mm in length, 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	STC	NOCT	STC	NOCT
Test conditions								
Maximum Power (P _{max} /W)	575	432	580	436	585	440	590	444
Open-circuit Voltage (V _{oc} /V)	51.2	48.6	51.4	48.8	51.6	49.0	51.8	49.2
Maximum Power Voltage (V _{mp} /V)	43.4	41.2	43.6	41.4	43.8	41.6	44.0	41.8
Short-circuit Current (I _{sc} /A)	14.08	11.37	14.14	11.42	14.20	11.46	14.26	11.51
Maximum Power Current (I _{mp} /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/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})	603.75	609	614.25	619.5
	Module Efficiency (%)	23.37	23.57	23.78	23.98
15%	Maximum Power (P _{max})	661	667	673	679
	Module Efficiency (%)	25.60	25.82	26.04	26.27
25%	Maximum Power (P _{max})	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 _{sc} (ΔI _{sc})	0.046%/°C
Temperature Coefficient of V _{oc} (βV _{oc})	-0.25%/°C
Temperature Coefficient of P _{max} (γP _{mp})	-0.29%/°C
Snow load, frontside / Wind load, backside	5400Pa/2400Pa