

DBB

DHN-72R20/DG(BW)

610~625W

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



No-Busbar(OBB) Technology, shorten 40% of the transmission distance.
Reduces losses & improving conversion efficiency



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



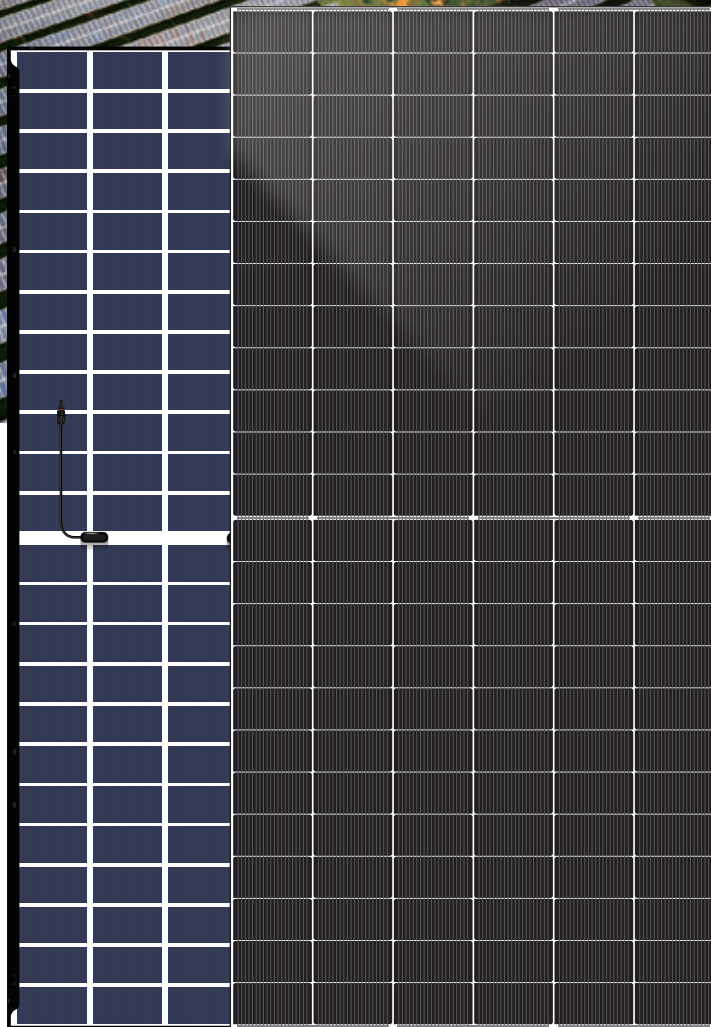
Double-glass Technology, higher encapsulation
blocking and mechanical strength



Higher power, longer service life, linear power warranty for 30 years

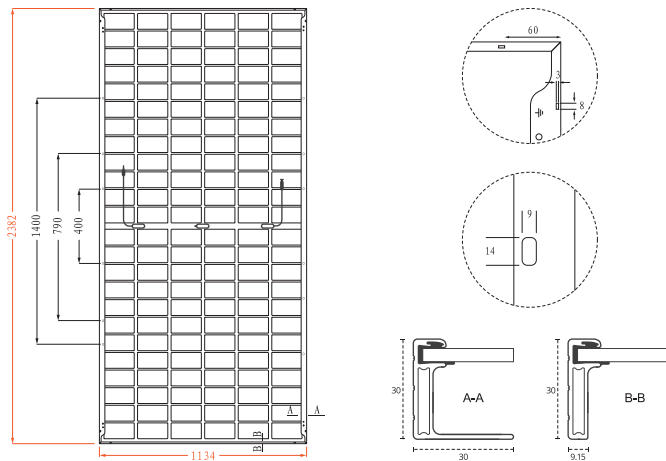


TOPCon cells, lower attenuation,
better temperature coefficient & dim light performance

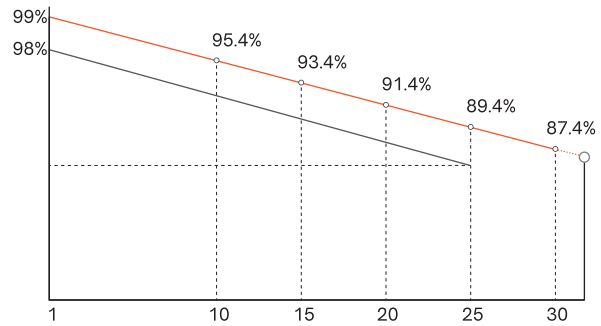


DHN-72R20/DG(BW) 610~625W

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	32.6kg
Cells Type	N-type 182×95.8mm
Dimension (L×W×T)	2382×1134×30mm
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-72R20/DG(BW)							
Test conditions	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power (Pmax/W)	610	459	615	462	620	466	625	470
Open-circuit Voltage (Voc/V)	52.4	49.8	52.6	50.0	52.8	50.2	53.0	50.4
Maximum Power Voltage (Vmp/V)	44.6	42.4	44.8	42.6	45.0	42.8	45.2	42.9
Short-circuit Current (Isc/A)	14.72	11.88	14.78	11.93	14.84	11.98	14.90	12.03
Maximum Power Current (Imp/A)	13.68	10.83	13.73	10.87	13.78	10.91	13.83	10.95
Module Efficiency (STC)	22.58%		22.77%		22.95%		23.14%	
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})	641	646	651	656
	Module Efficiency (%)	23.7	23.9	24.1	24.3
15%	Maximum Power (P _{max})	701.5	707.3	713.0	718.8
	Module Efficiency (%)	26.0	26.2	26.4	26.6
25%	Maximum Power (P _{max})	762.5	768.8	775.0	781.3
	Module Efficiency (%)	28.2	28.5	28.7	28.9

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