

DBB

DHN-60R20/DG(BW)

495~520W

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

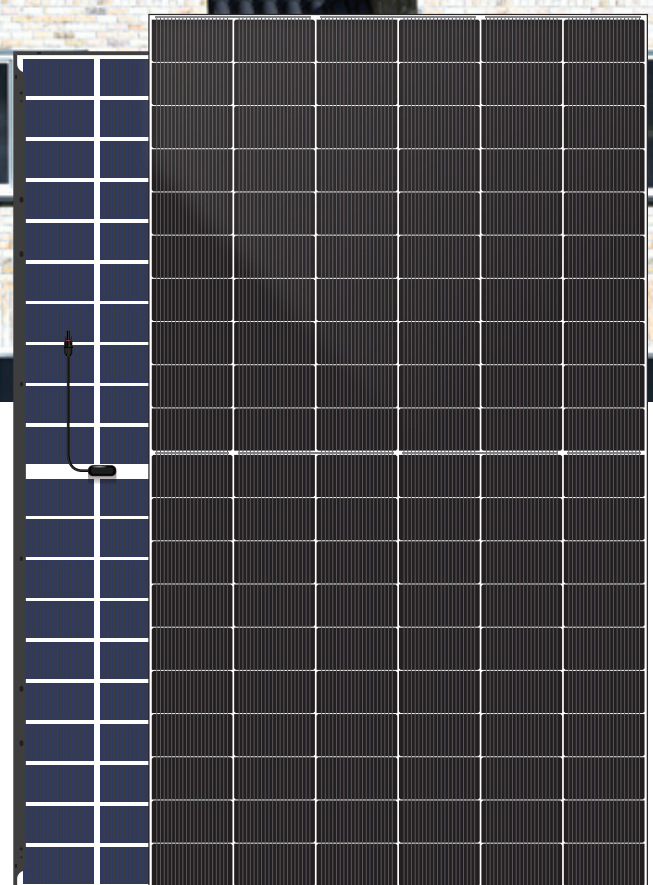

No-Busbar(OBB) Technology, shorten 40% of the transmission distance.
Reduces losses & improving conversion efficiency


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

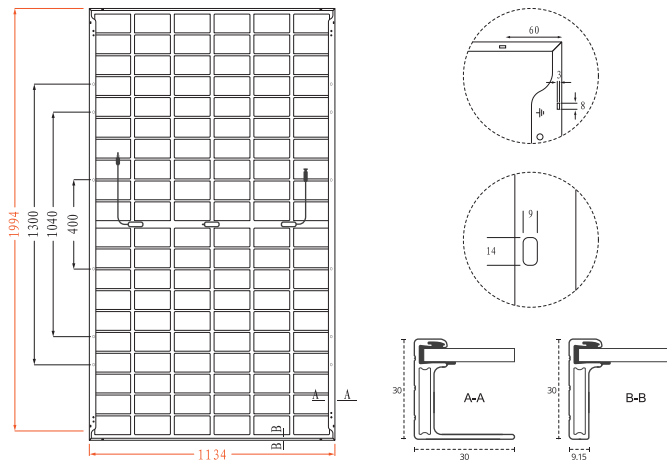
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Higher power, longer service life, linear power warranty for 30 years


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

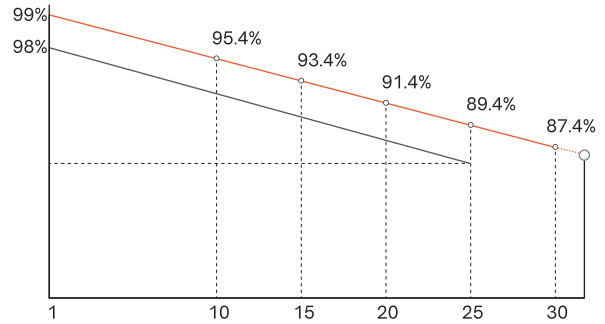


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Design



30-Year Linear Power Output Warranty



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

Mechanical Specification

No. of Cells	120 (6×20)
Weight	27.0kg
Cells Type	N-type 182×95.8mm
Dimension (L×W×T)	1994×1134×30mm
Packing	36pcs/Pallet, 792pcs/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-60R20/DG(BW)											
	STC		Noct		STC		Noct		STC		Noct	
Test conditions	STC	Noct	STC	Noct	STC	Noct	STC	Noct	STC	Noct	STC	Noct
Maximum Power (Pmax/W)	495	372	500	376	505	380	510	384	515	387	520	391
Open-circuit Voltage (Voc/V)	43.5	41.3	43.7	41.5	43.9	41.7	44.1	41.9	44.3	42.1	44.5	42.3
Maximum Power Voltage (Vmp/V)	36.9	35.1	37.1	35.2	37.3	35.4	37.5	35.6	37.7	35.8	37.9	36.0
Short-circuit Current (Isc/A)	14.42	11.64	14.48	11.69	14.54	11.74	14.60	11.79	14.66	11.84	14.72	11.88
Maximum Power Current (Imp/A)	13.41	10.62	13.48	10.67	13.54	10.72	13.60	10.77	13.66	10.81	13.72	10.86
Module Efficiency (STC)	21.89%		22.11%		22.33%		22.55%		22.78%		23.00%	
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%		15%		25%	
	Maximum Power (Pmax)	Module Efficiency (%)	Maximum Power (Pmax)	Module Efficiency (%)	Maximum Power (Pmax)	Module Efficiency (%)
	520	23.0	525	23.2	530	23.4
	536	23.7	541	23.9	546	24.1
	569.3	25.2	575.0	25.4	580.8	25.7
	586.5	25.9	592.3	26.2	598.0	26.4
	618.8	27.4	625.0	27.6	631.3	27.9
	637.5	28.2	643.8	28.5	650.0	28.7

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 Isc (ΔIsc)	0.046%/°C
Temperature Coefficient of Voc (ΔVoc)	-0.25%/°C
Temperature Coefficient of Pmax (ΔPmp)	-0.29%/°C
Snow load, frontside / Wind load, backside	5400Pa/2400Pa