



SolPaneler.eu



BloombergNEF



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

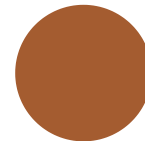
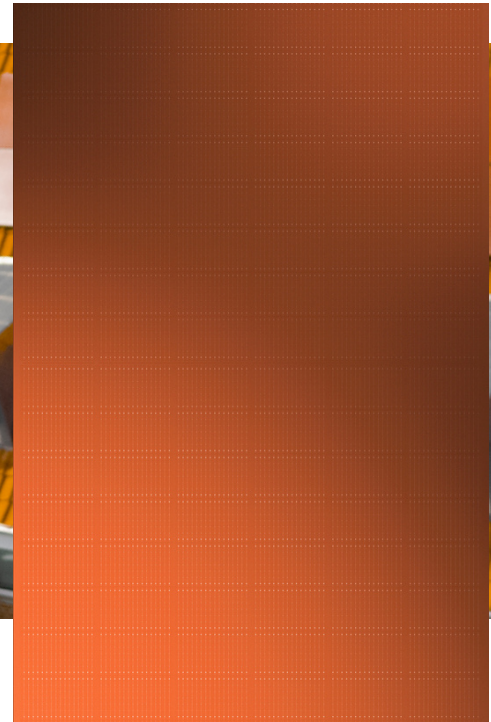
30 Linear power output warranty

Multiple colors available, High tech coatings guarantee color stability for 30 years

Double-glass Technology, higher encapsulation blocking and mechanical strength

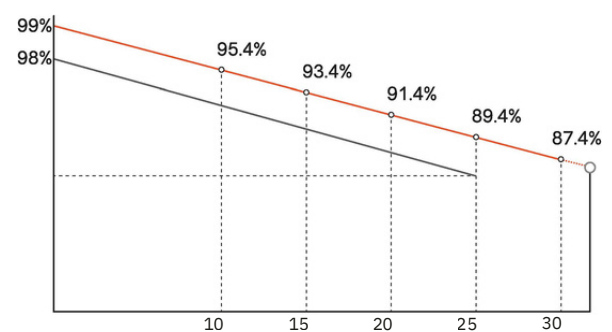
No-Busbar(OBB) Technology, shorten 40% of the transmission distance. Reduces losses & improving conversion efficiency

Fits various BIPV scenarios: roof, curtain wall, balcony, garden, corridor and other scenes



DNH-54R20/DG(RR)
Ochre brown
RAL 8007

30-Year Linear Power Output Warranty

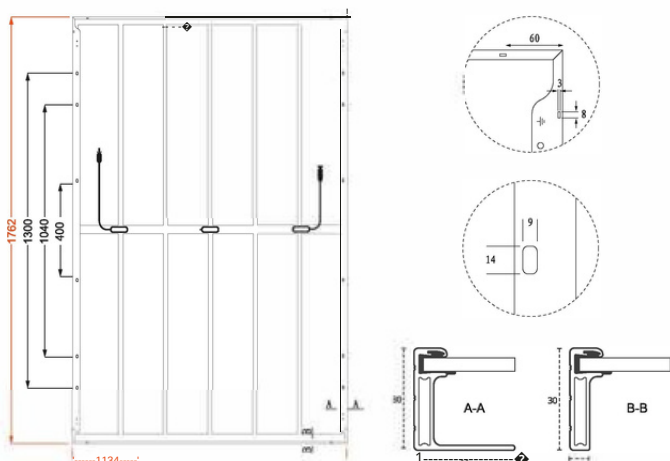


DAH Solar linear power output guarantee
Standard linear power output guarantee



DHN-54R20/DG(C C/RR/MM/AA) 380-430W

Design



Mechanical Specification

No. of Cells	108 (6x18)
Weight	23.9kg
Cells Type	N-type 182x95.8mm
Dimension (LxWxT)	1762x1134x30mm
Packing	36pcs/Pallet, 936pcs/40HQ
Cable	4.0mm ² , 3001200mm in length, (Including connector)
Glass	length can be customized 2.0mm High Transmission, Antireflection Coating
Junction Box	IP68, 3 Bypass Diodes
Connector	MC4 Compatible

Electrical Characteristics

Module Type	DHN-54R20/DG(CC/RR/MM/ AA)										
STC-Electrical Characteristics											
Maximum Power (Pmax/W)											
Open-circuit Voltage (Voc/V)	380	385	390	395	400	405	410	415	420	425	430
Maximum Power Voltage (Vmp/V)	39.54	39.58	39.61	39.65	39.68	39.72	39.75	39.79	39.82	39.86	39.89
Short-circuit Current (Isc/A }	33.88	33.92	33.95	33.99	34.02	34.06	34.09	34.13	34.16	34.20	34.23
Maximum Power Current (Imp/A}	11.58	11.75	11.92	12.09	12.26	12.43	12.60	12.77	12.94	13.11	13.28
NOCT-Electrical Characteristics											
Maximum Power (Pmax/W)											
Open-circuit Voltage (Voc/V)	286	290	293	297	301	305	308	312	316	320	323
Maximum Power Voltage (Vmp/V)	37.56	37.60	37.63	37.66	37.70	37.73	37.76	37.80	37.83	37.86	37.90
Short-circuit Current (Isc/A }	32.19	32.22	32.25	32.29	32.32	32.35	32.39	32.42	32.45	32.49	32.52
Maximum Power Current (Imp/A}	9.35	9.49	9.62	9.76	9.90	10.04	10.17	10.31	10.45	10.58	10.72
Module Efficiency (STC}	8.88	8.99	9.09	9.20	9.31	9.41	9.52	9.63	9.73	9.84	9.94
Refer Bifacial Factor	19.02%	19.27	19.52	19.77	20.02	20.27	20.52	20.77	21.02	21.27	21.52
STC-Standard Test Environment: Irradiance 1000W/m ² , Cell temperature 25°C, Spectrum AM1.5											
NOCT-Standard Test Environment: Irradiance 800W/m ² , Ambient temperature 20°C, Spectrum AM1.5, Wind speed 1m/s											

Double-Sided Power Generation Parameters (Rear gain)

5%	Maximum Power (P _{max})	399	404	410	415	420	425	431	436	441	446	452
	Module Efficiency (%)	19.97	20.23	20.49	20.76	21.02	21.28	21.55	21.81	22.07	22.33	22.60
	Maximum Power (P _{max})	437	443	449	454	460	466	472	477	483	489	495
15%	Module Efficiency (%)	21.87	22.16	22.45	22.73	23.02	23.31	23.60	23.89	24.17	24.46	24.75
	Maximum Power (P _{max})	475	481	488	494	500	506	513	519	525	531	538
25%	Module Efficiency (%)	23.77	24.09	24.40	24.71	25.02	25.34	25.65	25.96	26.27	26.59	26.90

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} (αI _{sc})	0.046%/°C
Temperature Coefficient of V _{oc} (αV _{oc})	-0.25%/°C
Temperature Coefficient of P _{max} (αP _{mp})	-0.29%/°C
Snow load, frontside / Wind load, backside	5400Pa/2400Pa