





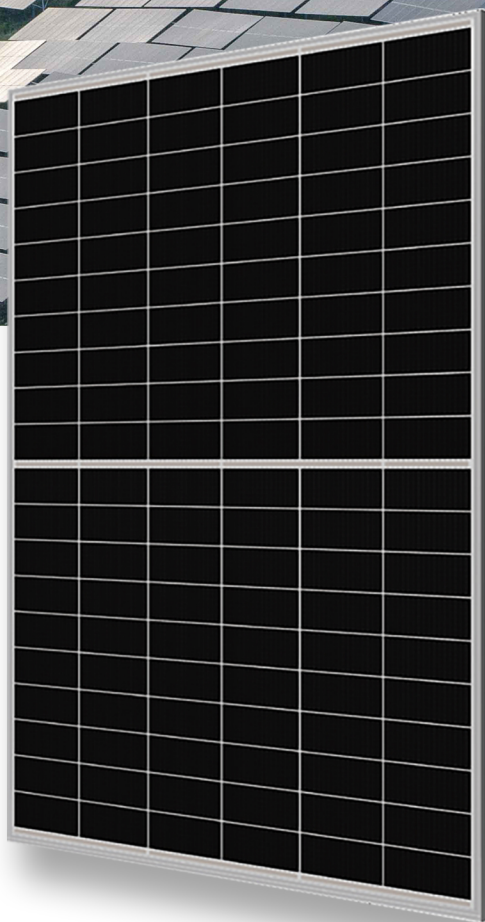




DOUBLE-GLASS 565-590W BHM144N1DGT

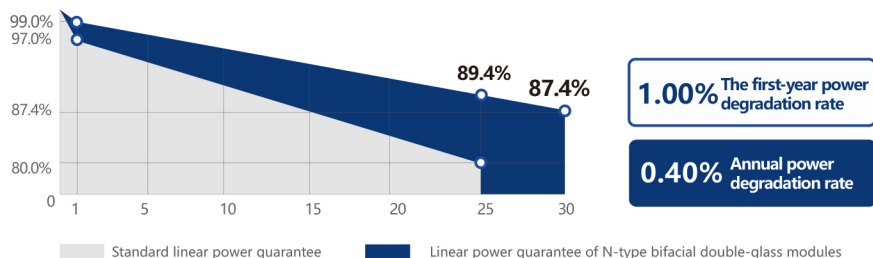
-  Ultra-high bifacial ratio
-  Positive power tolerance: 0 – +3%
-  Excellent anti-PID and anti-LID performance
-  Higher module conversion efficiency (up to 22.83%)
-  Lower current, higher power generation, and lower risk of hot spots
-  12 years quality guarantee and 30 years linear output guarantee



QUALITY MANAGEMENT SYSTEM AND PRODUCT CERTIFICATION

ISO 9001:2015/Quality management system	IEC 61215/61730、IEC62804(PID)、
ISO 14001:2015/Environmental management system	IEC 61701(Salt)/IEC62716(Ammonia)、
ISO 45001:2018/Occupational Health and Safety Management System	IEC 60068-2-68(Sand)

LINEAR POWER GUARANTEE



BHM144N1DGT 565-590W

Electrical performance parameters on the front side Maximum power test tolerance: $\pm 3\%$

Module model	565W		570W		575W		580W		585W		590W	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Testing environment												
Maximum power [Pmax/W]	565	421	570	425	575	429	580	432	585	436	590	440
Maximum power voltage [Vmp/V]	43.15	39.76	43.35	39.91	43.56	40.06	43.75	40.12	43.94	40.30	44.19	40.48
Maximum power current [Imp/A]	13.09	10.59	13.15	10.65	13.20	10.71	13.26	10.77	13.31	10.82	13.35	10.87
Open-circuit voltage [Voc/V]	51.44	47.65	51.60	47.91	51.75	48.12	51.90	48.32	52.10	48.55	52.20	48.66
Short-circuit current [Isc/A]	13.83	11.06	13.89	11.11	13.95	11.16	14.01	11.21	14.27	11.41	14.49	11.46
Module efficiency [%]	21.86		22.06		22.25		22.44		22.64		22.83	

Under the Standard Test Conditions (STC), the irradiance is 1000W/m², the air mass is AM1.5, and the module temperature is 25°C.
Nominal Operating Cell Temperature (NOCT): Irradiance of 800W/m², ambient temperature of 20°C, air mass of AM1.5, and wind speed of 1m/s

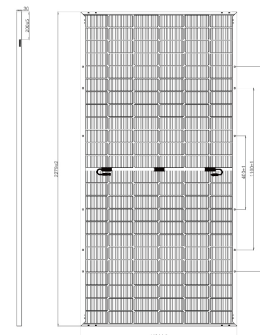
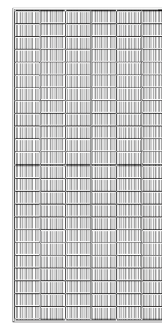
Electrical performance parameters on the back side The tolerance for the maximum power test: $\pm 3\%$

	Module model	565W	570W	575W	580W	585W	590W
		5%	Maximum power (pamx)	593	599	604	609
	Module efficiency (%)	22.9	23.1	23.3	23.5	23.7	24.0
15%	Maximum power (pamx)	650	656	661	667	673	679
	Module efficiency (%)	25.1	25.3	25.5	25.8	26.0	26.3
25%	Maximum power (pamx)	706	713	719	725	731	737
	Module efficiency (%)	27.3	27.5	27.8	28.0	28.2	28.5

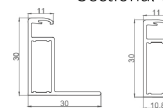
Mechanical and operating parameters

Number of cells	144 (6×24)
Junction box	IP68, three diodes
Output cable	4mm ² , length 300mm, length can be customized
Glass	2.0mm single-layer coated semi-tempered glass
Frame	Anodized aluminum alloy frame
Weight	31kg $\pm 3\%$
Size	2279x1134x30mm
Package	40HC
Operating temperature	-40°C ~ +85°C
Power tolerance	0~+5 W
Current - voltage tolerance	$\pm 4\% / \pm 3\%$
Maximum system voltage	DC1500V (IEC)
Maximum rated fuse current	25A
Nominal operating cell temperature	45 ± 2 °C
Safety level	Class II
Fire rating	Class A

Size drawing (mm)



Sectional view of the frame



Temperature coefficient (STC)

Temperature coefficient of short - circuit current	+0.048%/°C
Temperature coefficient of open - circuit voltage	-0.270%/°C
Temperature coefficient of maximum power	-0.350%/°C

Mechanical load

Maximum static load on the front side	5400Pa
Maximum static load on the back side	2400Pa
Hail test	Hailstones of 25 - millimeter diameter impact at a speed of 23 meters per second

I - V curve (BHM144N1DGT-580W)

