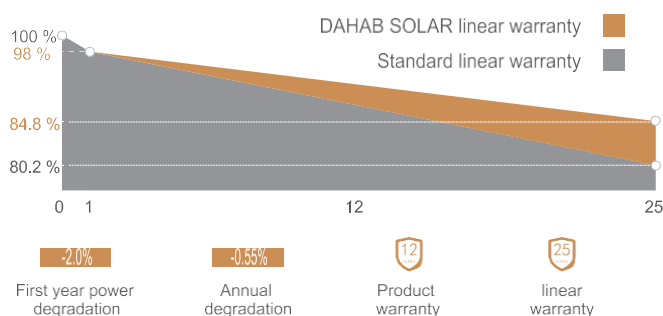


DHB-BF144 (182mm Cell)

530-550 Watt

BIFACIAL MODULE

Industry-leading Warranty based on nominal power



Features



DAHAB SOLAR Multi busbar technology

Multi busbar technology for maximum light capturing and minimum hotspot, shading and resistive losses



Zero micro-cracks

zero micro-cracks guaranteed due to fully automated production lines and comprehensive EL testing



High module conversion efficiency

Module efficiency up to 21.3% achieved through advanced cell technology and manufacturing process



Extended wind and snow load tests

Module certified to withstand extreme wind (3800 Pascal) and snow loads (5400 Pascal) *



Excellent weak light performance

More power output in weak light condition, such as cloudy, morning and sunset



Lower operating temperature

Lower operating temperature and temperature coefficient increases the power output



DAHAB SOLAR current sorting process

Up to 2 % power loss caused by current mismatch could be diminished by current sorting technique to maximize system power output



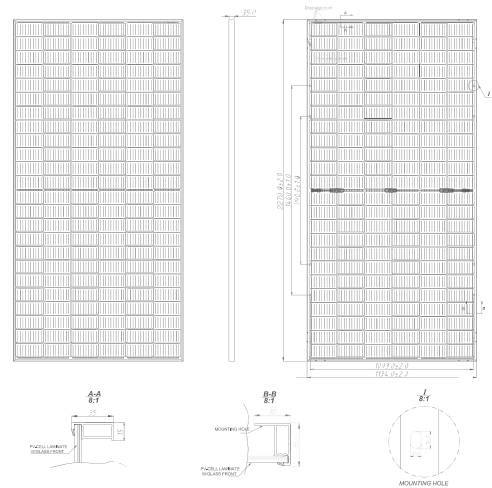
Withstanding harsh environment

Reliable quality leads to a better sustainability even in harsh environment like desert, farm and coastline



MECHANICAL SPECIFICATIONS

Cell Type	Monocrystalline
Cell Dimensions	182*182mm
Cell Arrangement	144 (6*24)
Weight	29kg
Module Dimensions	2279*1134*35 mm (89.7*44.6*1.4 inches)
Cable Length	Portrait 300mm/Landscape 1200mm/Customized
Cable Cross Section Size	TUV: 4mm ² (0.006inches ²)/UL: 12AWG
Front Glass	3.2mm (0.13 inches) AR Coating Semi-tempered Glass
No. of Bypass Diodes	3/6
Packing Configuration (1)	31pcs/carton, 620pcs/40hq
Frame	Anodized Aluminium Alloy
Junction Box	IP68



ELECTRICAL SPECIFICATIONS

Module Type	DHB-BF144 530		DHB-BF144 535		DHB-BF144 540		DHB-BF144 545		DHB-BF144 550	
Testing Condition	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT
Rated output (Pmp/Wp)	530	401	535	404	540	408	545	412	550	415
Maximum Power Voltage(Vmpp/V)	41.4	38.2	41.6	38.4	41.8	38.6	41.9	38.7	42.1	38.9
Maximum Power Current(Imp/A)	12.81	10.50	12.87	10.53	12.94	10.57	13.02	10.65	13.08	10.67
Open Circuit Voltage(Voc/V)	49.2	46.3	49.4	46.4	49.5	46.5	49.7	46.7	49.9	46.9
Short Circuit Current(Isc/A)	13.76	11.02	13.83	11.08	13.89	11.13	13.96	11.18	14.01	11.22
Module efficiency(%)	20.5%		20.7%		20.9%		21.1%		21.3%	
Power Tolerance (W)	0~+5		0~+5		0~+5		0~+5		0~+5	

STC: Irradiance 1000W/m², Cell Temperature 25°C, Air Mass AM1.5 NMOT: Irradiance at 800W/m², Ambient Temperature 20°C, Air Mass AM1.5, Wind Speed 1m/s

BIFACIAL OUTPUT-REAR SIDE POWER GAIN

5%	Maximum Power (Pmax)	557	562	567	572	578
	Module Efficiency STC (%)	21.6%	21.7%	21.9%	22.1%	22.4%
10%	Maximum Power (Pmax)	583	589	594	600	605
	Module Efficiency STC (%)	22.6%	22.8%	23.0%	23.2%	23.4%
15%	Maximum Power (Pmax)	610	615	621	627	633
	Module Efficiency STC (%)	23.6%	23.8%	24.0%	24.3%	24.5%

MAXIMUM RATINGS

Maximum System Voltage	1500V DC (IEC)
Operating Temperature	-40°C ~ +85°C
Maximum Series Fuse	30A
Static Loading	Snow Loading: 5400Pa/ Wind Loading: 2400Pa
Conductivity at Ground	≤0.1Ω
Safety Class	II
Resistance	≥100MΩ
Connector	T01/LJQ-3-CSY/MC4/MC4-EVO2
Backside Output Ratio*	70% ± 5%

TEMPERATURE CHARACTERISTICS

NMOT Temperature	43°C±2°C
Temperature Coefficient (Pmax)	-0.36%/°C
Temperature Coefficient (Voc)	-0.26%/°C
Temperature Coefficient (Isc)	0.043%/°C

CURVE & TEMPERATURE DEPENDENC

