

BLUE Sapphire Series

DHOOP 540 | 545 | 550 | 555 Watt

BIFACIAL MODULE WITH DUAL GLASS

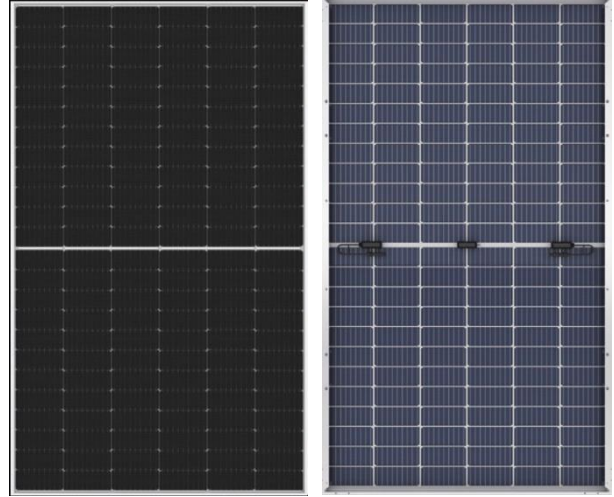
MANAGEMENT SYSTEM CERTIFICATES*-

- ISO 9001:2015 / Quality Management System
- ISO 14001:2015 / Environmental Management System
- ISO 45001: 2018 / International standards for occupational health & safety

PRODUCT CERTIFICATES*

- IEC 61215-2021/ IEC 61215-1-1/ IEC 61215-2:2021
- IEC 61730-1:2016 & IEC 61730-2:2016
- UL 61730 / IEC 61701 / IEC 62716 / IEC 62804
- IS 14286 / IS 61730-2
- CEC

- All certifications are under process



MORE POWER



Compatible with mainstream trackers,
Cost effective product for utility power plant



Better shading tolerance

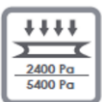


Up to 4.5 % lower LCOE
Up to 5.6 % lower system cost



Comprehensive LID / LeTID mitigation
Technology, up to 50% lower degradation

MORE RELIABLE



Enhanced Mechanical Load



Minimizes micro-crack impacts

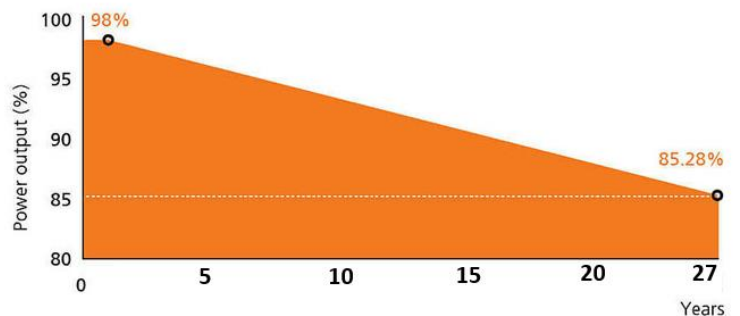


Tested In-House NABL Accredited LAB for
Maximum reliability.

Introduction

Assembled with 10BB PERC Cells, The Half-Cell configuration of the Modules offer the advantages of higher power output, better temperature-dependent performance, reduced shading effect on the energy generation, lower risk of hot spot, as well as enhanced tolerance for mechanical loading.

LINEAR PERFORMANCE WARRANTY

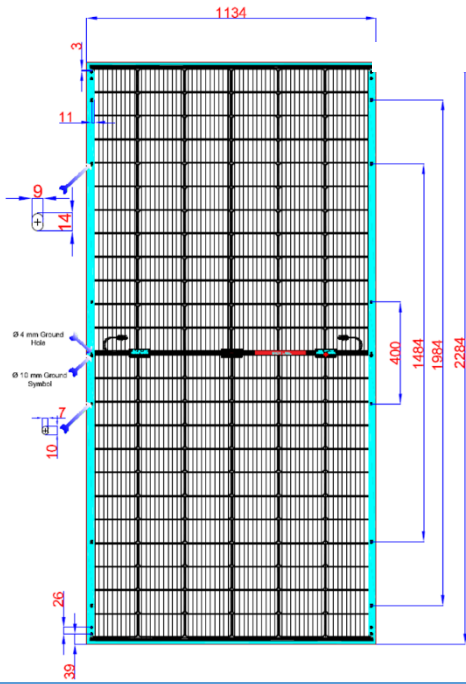


12 Years Product Warranty



27 Years Power Warranty

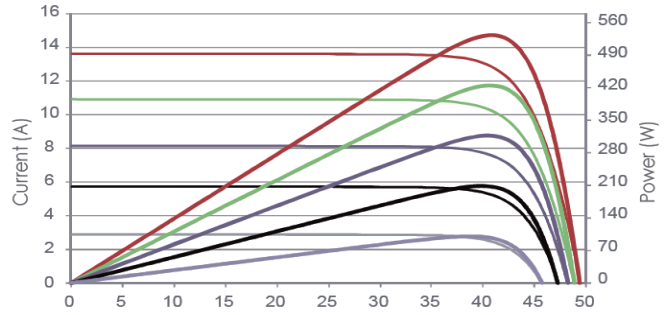
TECHNICAL DRAWING



PACKAGING CONFIGURATION

Container	22 Feet	40 Feet
Pieces/Pallet	30	30
Pallets/Container	10	20
Pieces/Container	300	600

ELECTRICAL PERFORMANCE



MECHANICAL CHARACTERISTICS

Cell Type	Mono-crystalline Bifacial
No. of cells	144 [2 x (12 x 6)]
Dimensions	2284x1134x35mm
Weight	33 kg
Front Glass	2.0mm, Anti-Reflection Coating
Back Glass	2.0mm, Heat Strengthened Glass
Frame	Anodized Aluminium Alloy
EVA	Transparent EVA
Junction Box	IP68, 3 diodes 25amp,
Output Cables	4 mm ² (IEC), 12 AWG (UL)
Connectors	MC4 compatible Connectors
Cable Length	400 mm (Customize length available)

ELECTRICAL CHARACTERISTIC

Module Type	540w		545w		550w		555w	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power (Pmax)	540	403.3	545	407	550	410.7	555	415.7
Maximum Power Voltage (Vmp)	41.65	38.78V	41.80	38.92V	41.95	39.061V	42.17	39.281
Maximum Power Current (Imp)	12.97	10.40A	13.04	10.46A	13.12	10.52A	13.17	10.57
Open-circuit Voltage (Voc)	49.50	46.41V	49.65	46.55V	49.80	46.69V	49.95	46.84
Short-circuit Current (Isc)	13.85	11.20A	13.92	11.25A	13.98	11.31A	14.05	11.38
Module Efficiency STC (%)	20.84		21.03		21.23		21.42	
Operating Temperature ()	-40°C ~ +85°C							
Maximum system voltage	1500VDC							
Maximum series fuse rating	25A							
Power tolerance	0~+3%							
Protection Class	Class II							

TEMPERATURE CHARACTERISTIC

Temperature coefficients of Pmax	-0.35%/°C
Temperature coefficients of Voc	-0.28%/°C
Temperature coefficients of Isc	0.048%/°C

BIFACIAL OUTPUT-REAR SIDE POWER GAIN

Irradiance	Parameter	540Wp	545Wp	550Wp	555Wp
5%	Maximum Power (Pmax)	567Wp	572.25Wp	577.5Wp	582.75Wp
	Module Efficiency STC (%)	21.89%	22.09%	22.29%	22.5%
15%	Maximum Power (Pmax)	621Wp	626.75Wp	632.5Wp	638.25Wp
	Module Efficiency STC (%)	23.98%	24.19%	24.42%	24.64%
25%	Maximum Power (Pmax)	675Wp	681.25Wp	687.5Wp	693.75Wp
	Module Efficiency STC (%)	26.06%	26.3%	26.54%	26.78%

*STC: Irradiance 1000W/m²

Cell Temperature 25°C

AM=1.5

*NOCT: Irradiance 800W/m²

Ambient Temperature 20°C

AM=1.5

Wind Speed 1m/

Note: The specifications include in this datasheet are subjected to change without prior notice* the electrical data given is for reference purpose only* Warranty: Please read DHOOP solar warranty documents thoroughly* Caution: Please read safety and installation manual before using the product*

DHOOP