

BLUE OPAL Series

DHOOP 540 | 545 | 550 | 555 Watt

MONO PERC

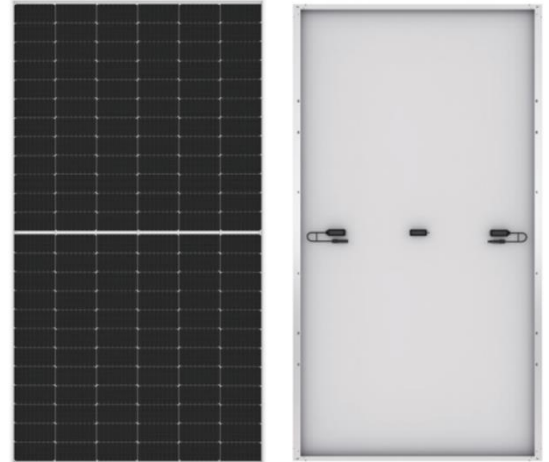
MANAGEMENT SYSTEM CERTIFICATES*-

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**

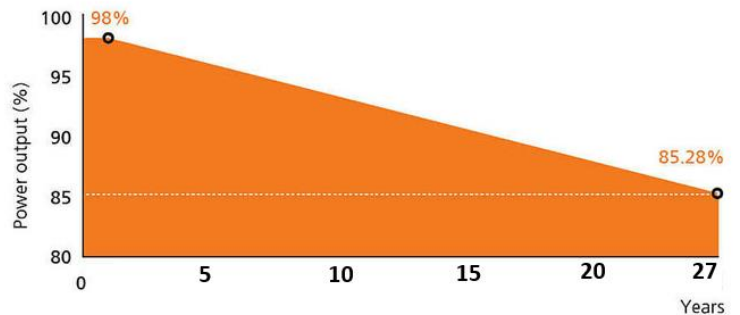
 **Minimizes micro-crack impacts**

 **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

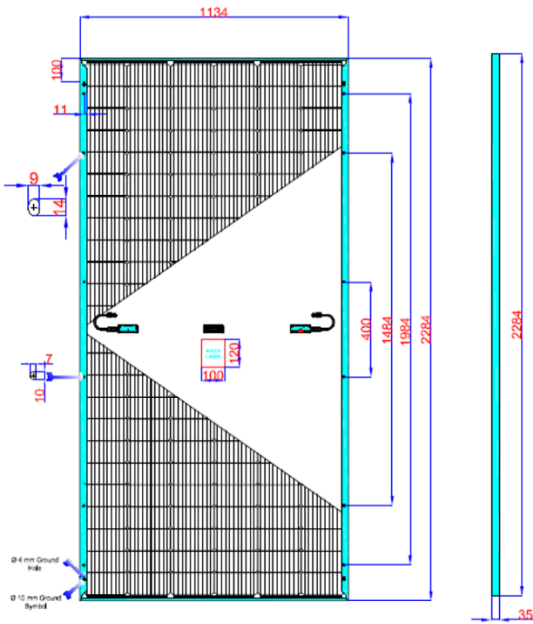


12 Years Product Warranty

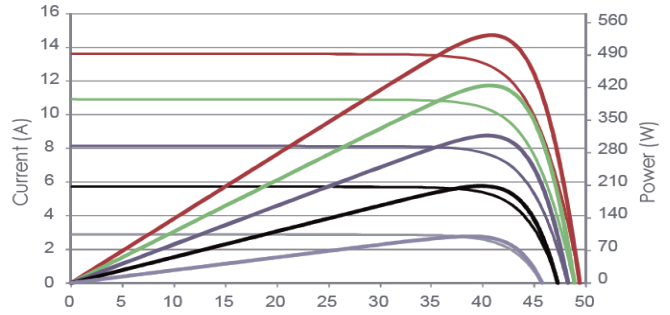


27 Years Power Warranty

TECHNICAL DRAWING



ELECTRICAL PERFORMANCE



PACKAGING CONFIGURATION

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

MECHANICAL CHARACTERISTICS

Cell Type	Mono-PERC Cell
No. of cells	144 [2 x (12 x 6)]
Dimensions	2284x1134x35mm
Weight	29 kg
Front Glass	3.2 mm tempered glass
Frame	Anodized Aluminium Alloy
EVA	Transparent EVA
Back-Sheet	White PVDF Back-Sheet (Black available optional)
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

*STC:  Irradiance 1000W/m ²	 Cell Temperature 25°C	 AM=1.5
*NOCT:  Irradiance 800W/m ²	 Ambient Temperature 20°C	 AM=1.5  Wind Speed 1m/s

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*