

# BLUE Sapphire Series

## DHOOP 595 | 600 | 605 | 610 Watt

### BIFACIAL MODULE WITH DUAL GLASS

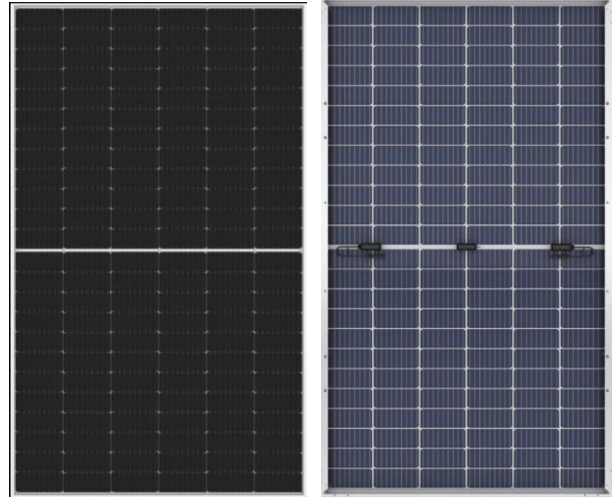
**MANAGEMENT SYSTEM CERTIFICATES\*-**

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  
 2400 Pa  
 5400 Pa

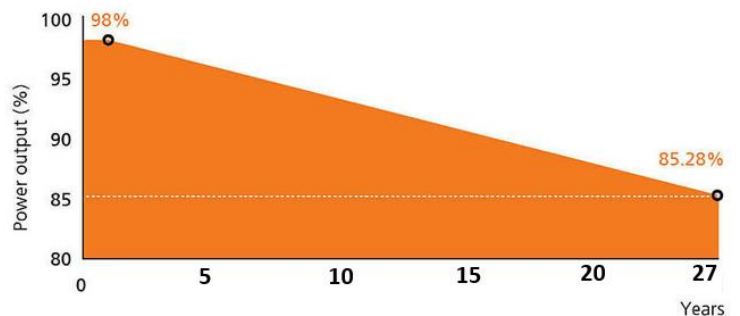
Minimizes micro-crack impacts

Tested In-House NABL Accredited LAB for  
 Maximum reliability.

### Introduction

Assembled with 12BB 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

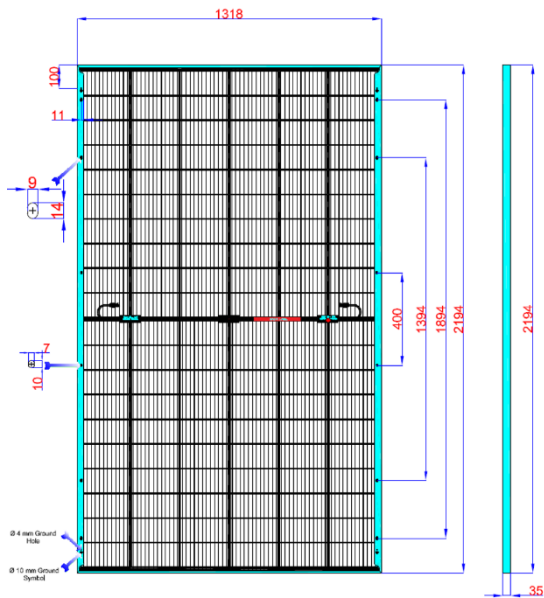


**12 Years Product Warranty**



**27 Years Power Warranty**

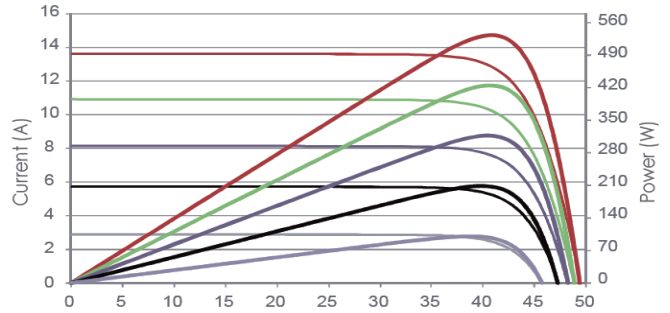
## TECHNICAL DRAWING



## PACKAGING CONFIGURATION

Container	40 Feet
Pieces/Pallet	30
Pallets/Container	16
Pieces/Container	480

## ELECTRICAL PERFORMANCE



## MECHANICAL CHARACTERISTICS

Cell Type	Mono-crystalline Bifacial
No. of cells	120 [2 x (10 x 6) ]
Dimensions	2194 x 1318 x 35mm
Weight	35
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 <sup>2</sup> (IEC), 12 AWG (UL)
Connectors	MC4 compatible Connectors
Cable Length	400 mm (Customize length available)

## ELECTRICAL CHARACTERISTIC

Module Type	595w		600w		605w		610w	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power (Pmax)	595	446	600	450	605	454	610	458
Maximum Power Voltage (Vmp)	34.7	32.5	34.9	32.7	35.1	32.9	35.3	33.1
Maximum Power Current (Imp)	17.15	13.73	17.20	13.77	17.25	13.81	17.3	13.84
Open-circuit Voltage (Voc)	41.1	38.8	41.3	39.0	41.5	39.2	41.7	39.3
Short-circuit Current (Isc)	18.42	14.85	18.47	14.89	18.52	14.93	18.57	14.98
Module Efficiency STC (%)	20.58		20.75		20.92		21.09	
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

		625	630	635	640
5%	Maximum Power (Pmax)	625	630	635	640
	Module Efficiency STC (%)	21.61	21.79	21.96	22.13
15%	Maximum Power (Pmax)	685	690	695	700
	Module Efficiency STC (%)	23.69	23.86	24.03	24.21
25%	Maximum Power (Pmax)	745	750	756	762
	Module Efficiency STC (%)	25.76	25.94	26.14	26.35

\*STC: Irradiance 1000W/m<sup>2</sup>

Cell Temperature 25°C

AM=1.5

\*NOCT: Irradiance 800W/m<sup>2</sup>

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\*