



# SEAFORST 120N Series

Bifacial High Efficiency  
Monocrystalline Silicon Half-Cell Double Glass Module

## ELECTRICAL PROPERTIES | STC\*

Module Type	120N-325	120N-330	120N-335	120N-340	120N-345	120N-350
Testing Condition	Front Side	Front Side	Front Side	Front Side	Front Side	Front Side
Peak Power ( Pmax ) (W)	325	330	335	340	345	350
MPP Voltage ( Vmp ) (V)	34.1	34.4	34.7	35.1	35.4	35.7
MPP Current ( Imp ) (A)	9.54	9.60	9.66	9.70	9.75	9.81
Open Circuit Voltage ( Voc ) (V)	41.0	41.2	41.5	41.8	42.1	42.4
Short Circuit Current ( Isc ) (A)	10.01	10.07	10.12	10.17	10.22	10.28
Module Efficiency ( % )	19.31	19.61	19.90	20.20	20.50	20.79

\*STC: Irradiance 1000 W/m<sup>2</sup>, Cell Temperature 25°C, Air Mass AM1.5  
The data above is for reference only and the actual data is in accordance with the practical testing

## ELECTRICAL PROPERTIES | NOCT\*

Testing Condition	Front Side	Front Side	Front Side	Front Side	Front Side	Front Side
Peak Power ( Pmax ) (W)	246	250	253	257	261	265
MPP Voltage ( Vmp ) (V)	32.0	32.3	32.5	32.9	33.2	33.5
MPP Current ( Imp ) (A)	7.69	7.74	7.79	7.82	7.86	7.91
Open Circuit Voltage ( Voc ) (V)	39.2	39.4	39.7	40.0	40.2	40.5
Short Circuit Current ( Isc ) (A)	8.07	8.12	8.16	8.20	8.24	8.29

\*NOCT: Irradiance at 800 W/m<sup>2</sup>, Ambient Temperature 20°C, Wind Speed 1 m/s

## OPERATING PROPERTIES >

Operating Temperature ( °C )	-40°C~+85°C
Maximum System Voltage ( V )	1500V ( IEC )
Maximum Series Fuse Rating(A)	20
Power Tolerance	0~+5W
Bifaciality*	80%

\*Bifaciality=Pmaxrear ( STC ) /Pmaxfront ( STC ) , Bifaciality tolerance:±5%

## TEMPERATURE COEFFICIENT >

Temperature Coefficient of Pmax*	-0.32%/°C
Temperature Coefficient of Voc	-0.26%/°C
Temperature Coefficient of Isc	+0.046%/°C
Nominal Operating Cell Temperature (NOCT)	42±2°C

\*Temperature Coefficient of Pmax±0.03%/°C

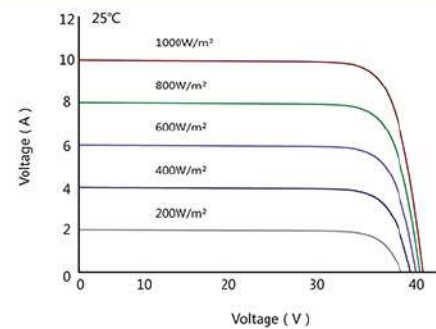
## MECHANICAL PROPERTIES >

Cell Type	158.75mm*79.375mm
Number of Cells	120pcs(12*10)
Dimension	1690mm*996mm*30mm
Weight	26Kg
Front/Rear Glass	2.5mm/2.5mm
Frame	Anodized Aluminium
Junction Box	IP67 ( 3 diodes )
Length of Cable	4.0mm <sup>2</sup> , 300mm
Connector	MC4 Compatible

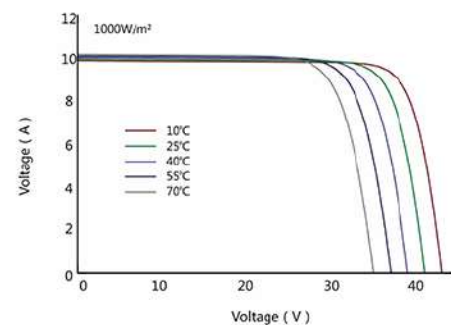
## With Different Power Generation Gain ( regarding 340W as an example )

Power Gain (%)	Peak Power ( Pmax ) (W)	MPP Voltage ( Vmp ) (V)	MPP Current ( Imp ) (A)	Open Circuit Voltage ( Voc ) (V)	Short Circuit Current ( Isc ) (A)
10	367	35.1	10.46	41.8	10.96
15	381	35.1	10.83	41.8	11.36
20	394	35.2	11.21	41.9	11.76
25	408	35.2	11.59	41.9	12.15
30	422	35.2	11.97	41.9	12.55

## Irradiance Dependence of Isc, Voc and Pmax >



## Temperature Dependence of Isc, Voc and Pmax >



\*The Specification and key features described in this datasheet may deviate slightly and are not Guarantee, due to ongoing innovation. R&D enhancement Xiamen Seashine Forest Industry And Trade Co.,Ltd. reserves the right to make any adjustment to the information described herein at Anytime without notice, please always obtain the most recent version of the datasheet which should be Duly incorporated into the binding contract made by the parties governing all transactions related to The purchase and sale of the products described herein.