



SEAFORST 144N Series

Bifacial High Efficiency
Monocrystalline Silicon Half-Cell Double Glass Module

ELECTRICAL PROPERTIES | STC*

Module Type	144N-390	144N-395	144N-400	144N-405	144N-410	144N-415
Testing Condition	Front Side	Front Side	Front Side	Front Side	Front Side	Front Side
Peak Power (Pmax) (W)	390	395	400	405	410	415
MPP Voltage (Vmp) (V)	40.8	41.2	41.5	41.8	42.1	42.4
MPP Current (Imp) (A)	9.56	9.60	9.64	9.69	9.74	9.79
Open Circuit Voltage (Voc) (V)	49.2	49.5	49.8	50.1	50.4	50.7
Short Circuit Current (Isc) (A)	10.02	10.08	10.14	10.19	10.24	10.29
Module Efficiency (%)	19.42	19.67	19.92	20.17	20.42	20.67

*STC: Irradiance 1000 W/m², 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)	295	299	303	306	310	314
MPP Voltage (Vmp) (V)	38.3	38.6	38.9	39.2	39.5	39.8
MPP Current (Imp) (A)	7.71	7.74	7.77	7.81	7.85	7.89
Open Circuit Voltage (Voc) (V)	47.0	47.3	47.6	47.9	48.2	48.5
Short Circuit Current (Isc) (A)	8.08	8.13	8.18	8.22	8.26	8.30

*NOCT: Irradiance at 800 W/m², 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= $P_{maxrear} (STC) / P_{maxfront} (STC)$, 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

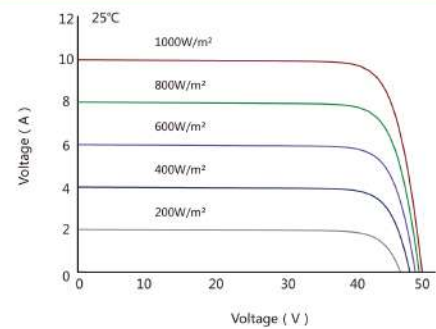
MECHANICAL PROPERTIES >

Cell Type	158.75mm*79.375mm
Number of Cells	144pcs(12*12)
Dimension	2016mm*996mm*30mm
Weight	31Kg
Front/Rear Glass	2.5mm/2.5mm
Frame	Anodized Aluminium
Junction Box	IP67 (3 diodes)
Length of Cable	4.0mm ² , 300mm
Connector	MC4 Compatible

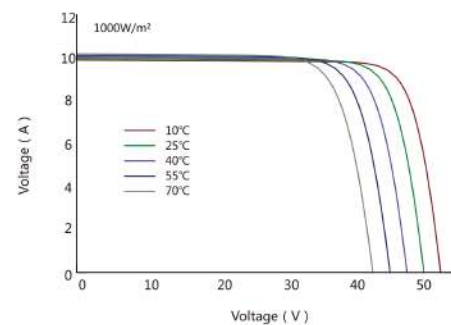
With Different Power Generation Gain (regarding 405W as an example)

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	437	41.8	10.46	50.1	10.98
15	454	41.9	10.84	50.2	11.38
20	470	41.9	11.22	50.2	11.78
25	486	41.9	11.60	50.2	12.18
30	502	41.9	11.99	50.2	12.57

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.