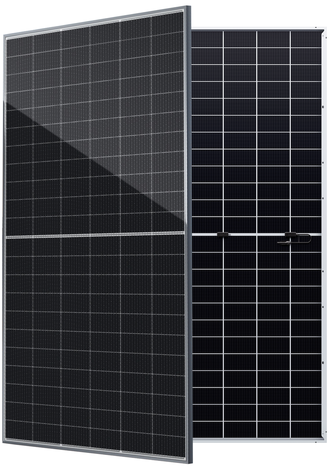
SW575N-144

N Type Bifacial Module 144 Cells 555W-575W



Mono Solar Panel Features

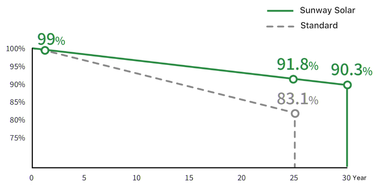
- Widely using of the most popular and mature type of modules for solar system
- High power output and highest conversion efficiency of 22.25%
- Anti-reflective and anti-soiling surface reduces power loss from dirt and dust
- Outstanding Performance in low-light irradiance environments
- Excellent mechanical load resistance: Certified to withstand high wind loads (2400Pa) and Snow loads (5400Pa)
- Positive power tolerance: 0~+5W

Warranty

12 years for product defects in materials & workmanship
12 years for 90% of warranted minimum power output
30 years for 80% of warranted minimum power output
30 years liner warranty

Reliable Quality

Positive power tolerance: 0~+5W
100% EL Double-inspection ensures modules are defects free
Modules Binned by Current to improve system performance
Potential induced Degradation (PID) Resistant



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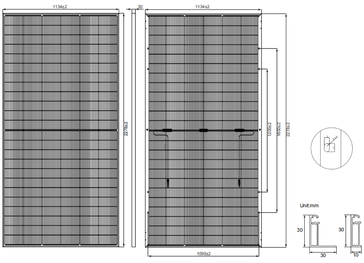
Mechanical parameters

Cell(mm)	N Type 16BB 182*91mm
Weight(kg)	30.5kg
Front Glass	AR Coated 2+2 mm tempered glass
Dimensions (L*W*H)(mm)	2278*1134*30mm
Cable Cross Section Size (mm²)	4
Cable Cross Section Length (mm)	1200
No.of Cells and Connections	144(6*24)
Junction Box	IP68 Rated
Connector	MC4 Compatiple

Engineering Drawings



Working Conditions

Maximum System Voltage	DC 1500V
Operating Temperature	-40℃~+85℃
Maximum Series Fuse	30A
Maximum Static Load,Front (e.g.,snow and wind)	5400Pa (112 lb/ft²)
Maximum Static Load,Back (e.g.,wind)	2400Pa (50 lb/ft²)
NOCT	45±2℃
Positive power tolerance	0~+5W
Application Class	Class A

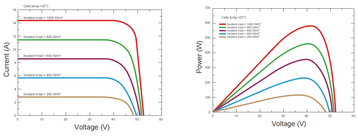
Packaging Configuration

Moduels Per Pallet	37Pcs
Moduels Per 40HQ	740Pcs

Bifacial Output Rear Side Power Gain

Power Gain	5%	15%	25%
Maximum Power- Pmax(W)	595	650	705
Open Circuit Voltage - Voc(V)	51.07	51.07	51.07
Short- Circuit Current - Isc(A)	14.81	16.23	16.93
Voltage at Pmax -Vmp(V)	42.21	42.21	42.21
VCurrent at Pmax - Imp(A)	14.10	15.40	16.70

I-V Curve



Electrical Parameters

Module	SW555N-144 ~ SW575N-144		
Encapsulation	Glass/Eva/Cell/Eva/Glass		
Maximum Power Pmax (W)	555	565	575
Maximum Power Voltage (Vmp/V)	41.96	42.21	42.45
Maximum Power Current (Imp/A)	13.23	13.38	13.51
Open Circuit Voltage (Voc/V)	50.87	51.07	51.26
Short Circuit Current (Isc/A)	13.81	13.92	14.01
Module Efficiency (%)	21.48	21.87	22.25
Power Tolerance (W)	0 ~ +5W		
Temperature Coefficient of Isc (αIsc)	+0.045%/℃		
Temperature Coefficient of Voc (βVoc)	-0.25%/℃		
Temperature Coefficient of Pmax (γPmp)	-0.29%/℃		
STC	Irradiance 1000W/㎡, Cell Temperature 25℃, Air Mass 1.5		

Sunway Solar Co., Ltd. + 86 138 6693 1144 info@sunwaypv.com www.sunwaypv.com