

YOUR PROFESSIONAL PV SUPPLIER

SW610M-120 Monocrystalline 120 Cells 590W-610W



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 21.60%



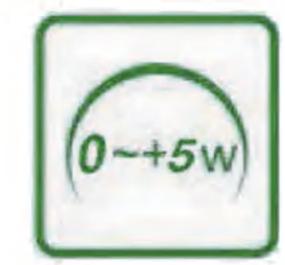
Anti-reflective and anti-soiling surface reduces power loss from dirt and dust



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



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

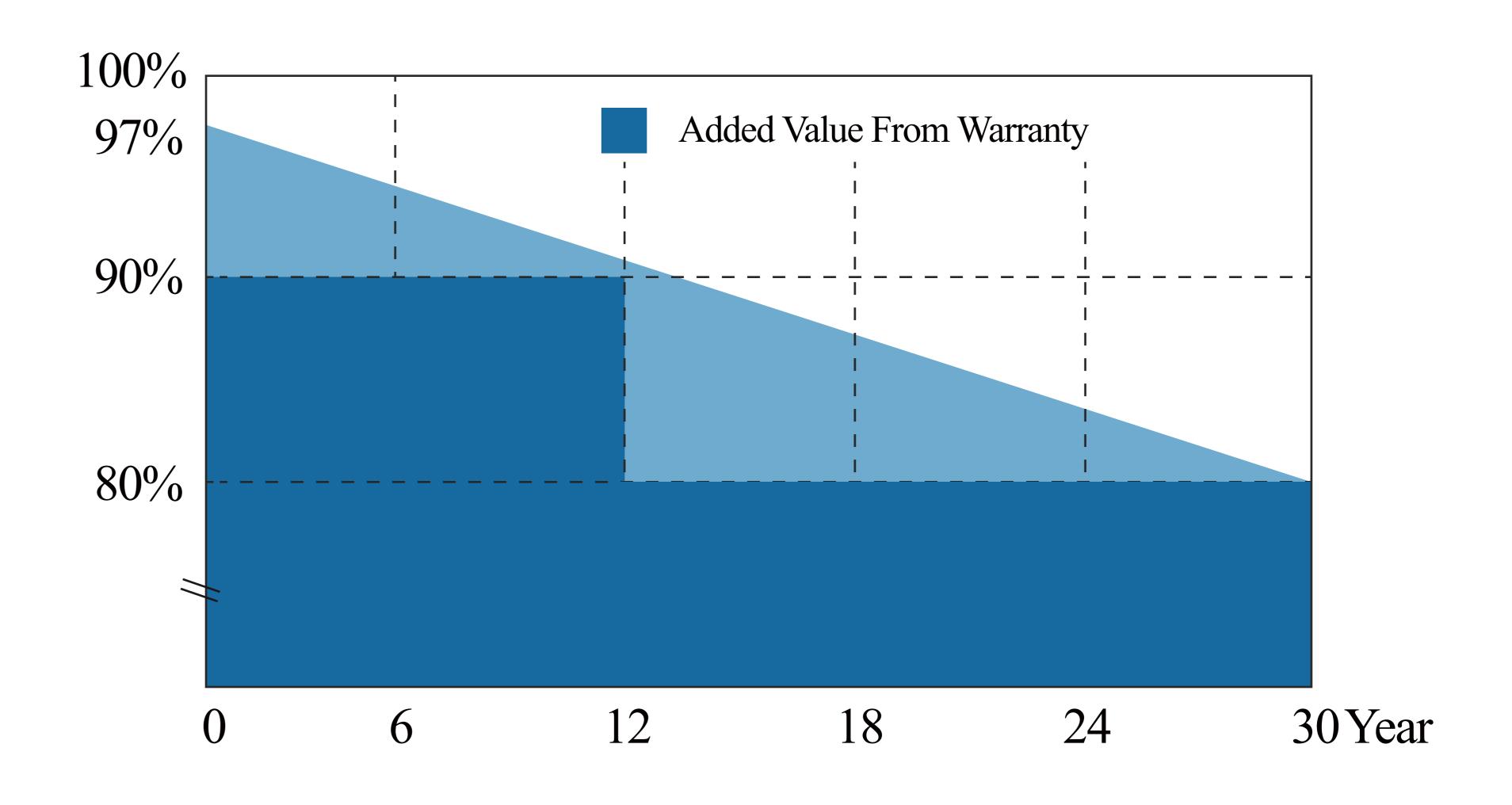
Warranty

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



Hefei Sunway Solar Energy Tech. Co., Ltd. 🕟 + 86 138 6693 1144 🔀 info@sunwaypv.com

Www.sunwaypv.com



YOUR PROFESSIONAL PV SUPPLIER

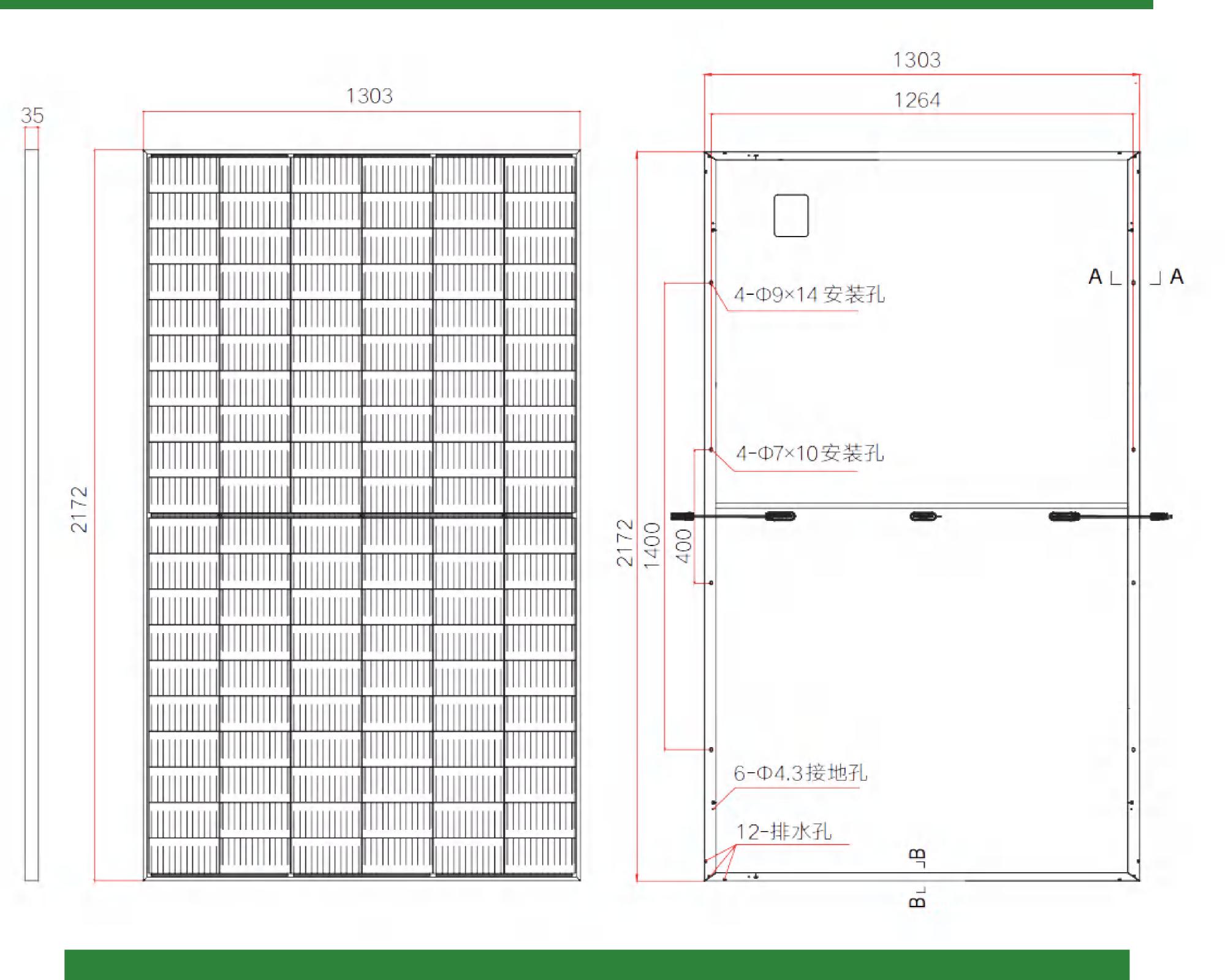
Mechanical parameters

Cell(mm)	210*210mm
Weight(kg)	31.5kg
Glass Thickness	3.2mm AR Coating Tempered Glass
Dimensions (L*W*H)(mm)	2172*1303*35mm
Cable Cross Section Size (mm ²)	4
Cable Cross Section Length (mm)	300
No.of Cells and Connections	120(6*20)
Junction Box	IP68, with Bypass Diodes
Connector	MC4 Compatiple

Working Conditions

Maximum System Voltage	DC 1000V/1500V		
Operating Temperature	$-40^{\circ}C \sim +85^{\circ}C$		
Maximum Series Fuse	30A		
Maximum Static Load, Front (e.g., snow and wind)	5400Pa (112 lb/ft ²)		
Maximum Static Load, Back (e.g., wind)	2400Pa (50 lb/ft ²)		
NOCT	43±2°C		
Positive power tolerance	$0 \sim +5 W$		
Application Class	Class A		

Engineering Drawings



Modules Per Pallet	31Pcs
Modules Per 40HQ	558Pcs

Electrical Parameters

Modulo

SW500NI 120 . SW610NI 120

SW590M-120 ~ SW610M-120						
Class/Eva/Cell/Eva/Backsheet						
590	595	600	605	610		
34.00	34.20	34.40	34.60	34.80		
17.35	17.40	17.44	17.49	17.54		
41.10	41.30	41.50	41.70	41.90		
18.42	18.47	18.52	18.57	18.62		
20.80	21.00	21.20	21.40	21.60		
$0 \sim +5 \mathrm{W}$						
+0.043%/°C						
-0.26%/°C						
-0.36%/°C						
Irradiance 1000W/ m ² , Cell Temperature 25 °C , Air Mass 1.5						
- - -	34.00 17.35 41.10 18.42 20.80	Class/Ev 590 595 34.00 34.20 17.35 17.40 41.10 41.30 18.42 18.47 20.80 21.00	Class/Eva/Cell/Eva/Backsheet59059560034.0034.2034.4017.3517.4017.4441.1041.3041.5018.4218.4718.5220.8021.0021.20 $0 \sim +5W$ $-0.26\%/C$ -0.26%/C	Class/Eva/Cell/Eva/Backsheet 590 595 600 605 34.00 34.20 34.40 34.60 17.35 17.40 17.44 17.49 41.10 41.30 41.50 41.70 18.42 18.47 18.52 18.57 20.80 21.00 21.20 21.40 0 ~ +5W +0.043%/C -0.26%/C -0.36%/C		

I-V Curve

