

FULL BLACK Mono PERC 60 ASW 270-290 Watt Mono Crystalline Module

Positive Power Tolerance of 0~+3%

ISO9001:2008, ISO 14001:2004, OSHAS18001
Certified Factory
IEC61215, IEC61730 certified Products

MADE IN THE USA



About American Solar Wholesale

Designs , manufactures and delivers high efficiency solar modules to the world from its production center in the United States.

Founded in 2010, American Solar Wholesale is well known for its advanced solar cell technology, reliable product quality, and excellent customer service.

American Solar Wholesale has delivered solar products to military residential, commercial, utility and off grid projects since 2010 which are performing as per warranty.

Bloomberg
NEW ENERGY FINANCE

KEY FEATURES



Up to 5 Busbar Solar Cell:

Up to 5 busbar solar cell adopts new technology to improve the efficiency of modules, offers a better aesthetic appearance, making it perfect for rooftop installation.



High Efficiency:

Higher module conversion efficiency (up to 17.86%) benefit from Passivated Emmitter Rear Contact (PERC) technology.



PID RESISTANT:

ASW modules pass PID test, limited power degradation by PID test is guaranteed for mass production.



Low-light Performance:

Advanced glass and solar cell surface texturing allow for excellent performance in low-light environments.



Severe Weather Resilience:

Certified to withstand: wind load (2400 Pascal) and snow load (5400 Pascal).

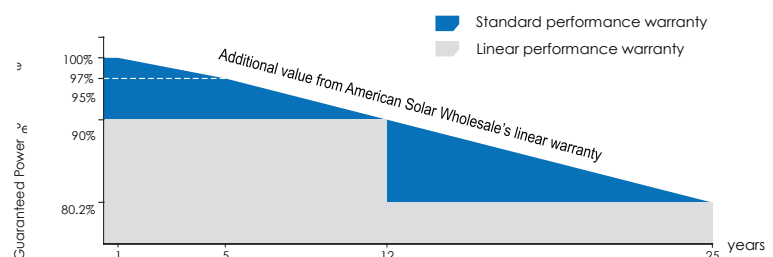


Durability against extreme environmental conditions:

High salt mist and ammonia resistance certified by TUV NORD.

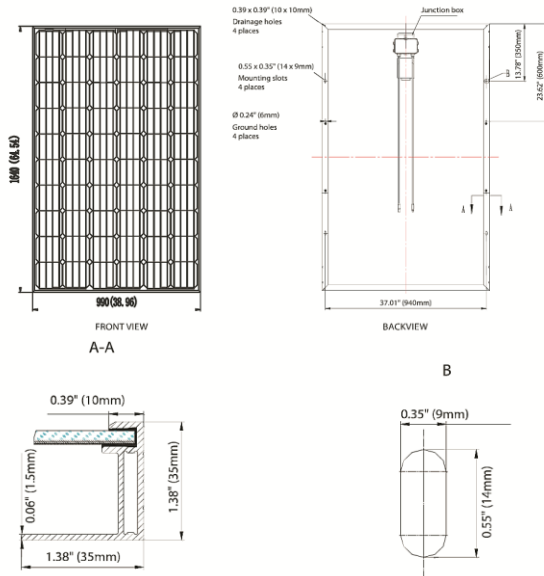
LINEAR PERFORMANCE WARRANTY

10 Year Product Warranty • 25 Year Linear Power Warranty



Engineering Drawings

Note: for 1.38" frame – different module layout for thicker frame.



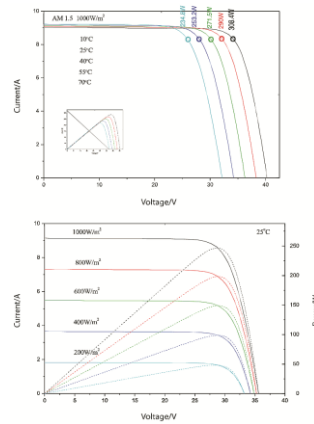
Packaging Configuration

(two pallets = 1 stack 2035 lbs) 89.52 " H x 66.93 " W

24pcs/pallet, 48pcs stack, 896 pcs/40' HQ Container

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IV - Curves



Mechanical Characteristics

Cell Type	Mono-crystalline PERC 156x156mm (6 inch)
No. of Cells	60 (6x10)
Dimensions	1640x990x35mm (64.00x38.98x1.38)
Weight	18.3 kg (40.34 lbs)
Front Glass	3.2mm, High Transmission, Low Iron, Tempered Glass
Frame	Anodized Aluminum Alloy
Junction Box	IP67 Rated
Output Cables	TUV 1x4.0mm, length:900mm, MC4
Class	Application Class A, Safety Class II

SPECIFICATIONS

Module Type	ASW270-60MUSA		ASW275-60MUSA		ASW280-60MUSA		ASW285-60MUSA		ASW290-60MUSA	
	STC	NOTC	STC	NOTC	STC	NOTC	STC	NOTC	STC	NOTC
Maximum Power (Pmax)	270Wp	198Wp	275Wp	205Wp	280Wp	207Wp	285Wp	210Wp	290Wp	214Wp
Maximum Power Voltage (Vmp)	31.2V	28.8V	31.3V	29.6V	31.5V	29.7V	31.7V	29.8V	31.9V	30.0V
Maximum Power Current (Imp)	8.65A	6.88A	8.78A	6.93A	8.99A	6.99A	9.04A	7.06A	9.10A	7.13A
Open-circuit Voltage (Vmp)	38.3V	35.3V	38.5V	35.3V	39.1V	35.4V	39.3V	35.5V	39.5V	36.1V
Short -circuit Current (Isc)	9.07A	7.36A	9.13A	7.42A	9.33A	7.48A	9.40A	7.54A	9.47A	7.60A
Module Efficiency STC (%)	16.63%		16.90%		17.21%		17.55%		17.86%	
Operating Temperature (°C)	-40°~+85°									
Maximum System Voltage	1000VDC (IEC)									
Maximum Series Fuse Rating	20A									
Power Tolerance	0~+3%									
Temperature Coefficients of Pmax	-0.423%/C									
Temperature Coefficients of Voc	-0.307%/C									
Temperature Coefficients of Isc	0.039%/C									
Nominal Operating Cell Temperature (NOCT)	45±2 C									

*Power Measurement Tolerance: ±3%

STC (Standard Test Condition):

NOCT (Nominal Operating Cell Temperature):

Irradiance 1000 W/m², Module Temperature 25 °C, AM 1.5

Irradiance 800 W/m², ambient temperature 20 °C, wind speed 1 m/s

Comprehensive products and system certificates

- IEC 61215/ IEC 61730/ UL 1703/ IEC 61701/IEC 62716
- ISO 9001: Quality Management System
- ISO 14001: Environmental Management System
- ISO 14064: Greenhouse Gases Emissions Verification
- OHSAS 18001: Occupation Health and Safety Management System

