

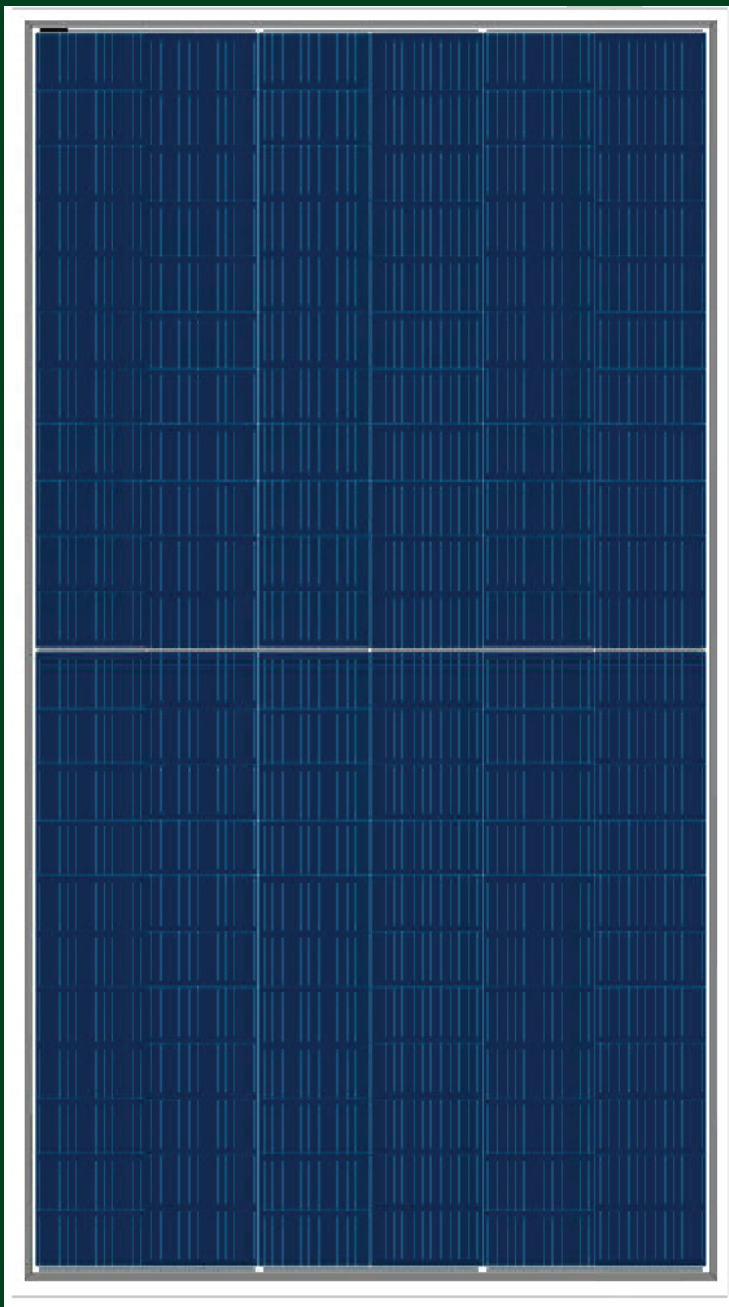
AWG-MS1/D66 640-660W



ASPEN WOODS
GROUP INC.

132 HALF-CELL MONOFACIAL
MODULE

TOPCON Solar Panel



660W
Max Power Output

21.2%
Max Module Efficiency

0~+5W
Power Tolerance

Certifications and standards:
IEC 61215, IEC 61730, Conformity to CE



Features

High Module Conversion Efficiency

Module efficiency up to 21.0% achieved through advanced cell technology and manufacturing process.

Aspen Woods Group Inc. Current Sorting Process

Up to 2% power loss caused by the current mismatch could be diminished by the current sorting technique to maximize system power output.

Excellent Weak Light Performance

More power output in weak light conditions, such as cloudy, morning and sunset.

Lower Operating Temperature

Lower operating temperature and temperature coefficient increases the power output.

Extended Wind and Snow Load Test

Module certified to withstand extreme wind (3800 pascals) and snow loads (6000 Pascals).

Withstanding Harsh Environment

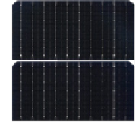
Reliable quality leads to a better sustainability even in harsh environments like deserts, farms and coastline.

Trust Aspen Woods Group Inc. to Deliver Reliable Performance Over Time

- World-class manufacturer of crystalline silicon photovoltaic modules.
- Rigorous quality control meeting the highest standards: ISO 9001, ISO 14001 and ISO17025.
- Regular independently checked product process from international accredited institute/company.
- Tested for harsh environments (IE 61701, IEC 62716, DIN EN 60068-2-68).
- Long-term reliability tests.
- 2 x 100% EL inspection ensuring defect-free modules.

HD Technology + Half Cell

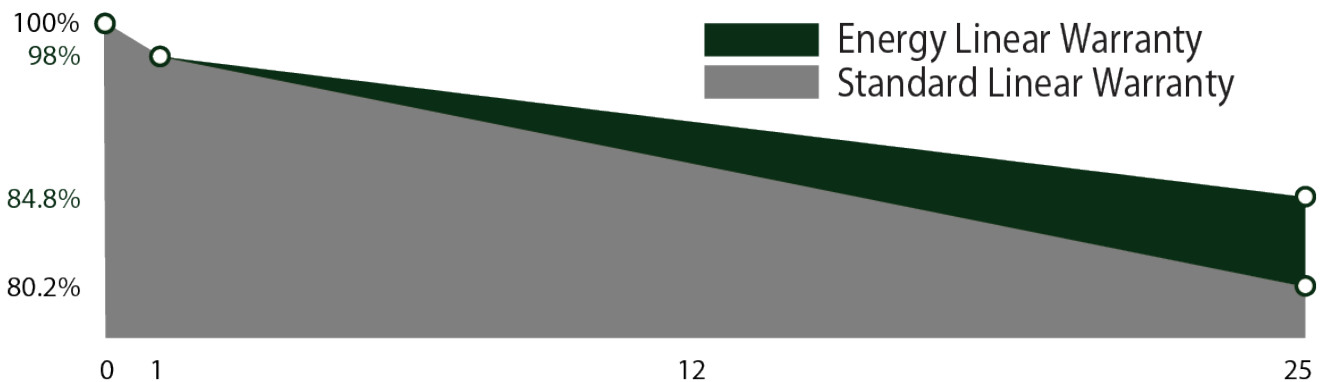
MBB technology decreases the distance between bus bars and finger grid lines, which benefits power increase. Half-cell aims to eliminate the cell gaps to increase module efficiency.



Special Cell Design

The Aspen Woods Group Inc. energy IP68 rated junction box ensures an outstanding waterproof level, supports installations in all orientations and reduces stress on the cables.

Industry-leading Warranty based on nominal power



-2.0%
First Year Power Degradation

-0.55%
Annual Defradation

12 YEARS
Product Warranty

25 YEARS
Linear Warranty

STC		AWG-MS1/D66 640-660W				
Maximum Power at STC (Pmax)		660W	655W	650W	645W	640W
Optimum Operating Voltage (Vmp)		38.05V	37.85V	37.65V	37.45V	37.25V
Optimum Operating Current (Imp)		17.35A	17.31A	17.27A	17.23A	17.19A
Open Circuit Voltage (Voc)		46.05V	45.85V	45.65V	45.45V	45.25V
Closed Circuit Current (Isc)		18.35A	18.31A	18.27A	18.23A	18.19A
Module Efficiency		21.2%	21.1%	20.9%	20.8%	20.6%
Operating Module Temperature		-40°C to +85°C				
Maximum System Voltage		1500 V DC (IEC)				
Maximum Series Fuse Rating		35A				
Power Tolerance		0~+5W				

STC: Irradiance 1000 W/m², Module temperature 25°C, AM+1.5;
Tolerance of Pmax is within +/- 3%;
For tracker installation, please turn to Aspen Woods Group Inc. Energy for mechanical load information

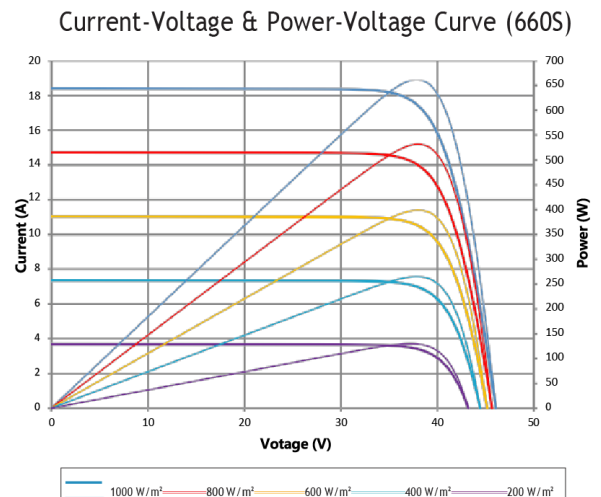
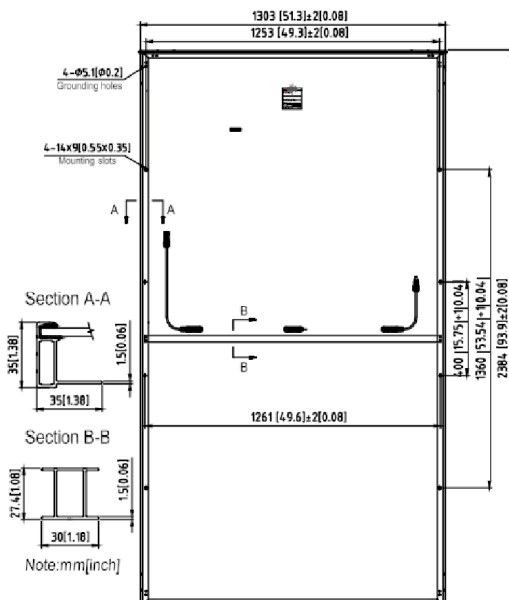
NMOT		AWG-MS1/D66 640-660W				
Maximum Power at NMOT (Pmax)		497.9W	494.1W	490.3W	486.74W	483.0W
Optimum Operating Voltage (Vmp)		35.6V	35.4V	35.2V	35.1V	34.9V
Optimum Operating Current (Imp)		13.99A	13.96A	13.92A	13.89A	13.85A
Open Circuit Voltage (Voc)		43.4V	43.2V	43.0V	42.8V	42.6V
Closed Circuit Current (Isc)		14.76A	14.73A	14.70A	14.67A	14.64A

NMOT: Irradiance 800 W/m², Ambient temperature 20°C, AM=1.5, Wind Speed 1m/s.

Temperature Characteristics	
Nominal Module Operating Temperature (NMOT)	42 ± 2°C
Temperature Coefficient of Pmax	-0.36%/°C
Temperature Coefficient of Voc	-0.304%/°C
Temperature Coefficient of Isc	0.050%/°C

Temperature Characteristics	
Solar Cell	Monocrystalline Silicon 210mm
No. of Cells	132 (6 x 22)
Dimensions	2384 x 1303 x 35 mm (93.9 x 51.3 x 1.4 Inches)
Weight	34.5 kgs (76.1 lbs.)
Front Glass	3.2mm (0.126 Inches)
Frame	Anodized Aluminium Alloy
Junction Box	IP68 Rated (3 Bypassed Diodes)
Output Cable	4.0mm ² , Portrait: (-) 350mm and (+) 160mm in length or customised length
Connectors	MC4 EVO2, Cable 01S

Packing Configuration	
Container	40'HC
Pieces Per Container	558





GET IN TOUCH

Head Office - 98 Cuttermill Road, Suite
466, Great Neck, NY, 11021
info@awgroupinc.com
www.awgroupinc.com



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