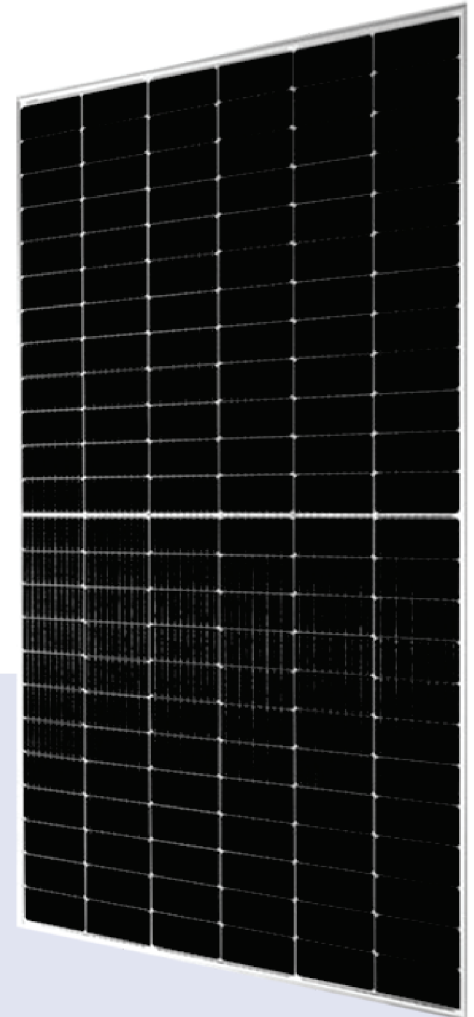




GRAYMAN SOLAR

EMPOWERING YOU THROUGH NATURE



The **Rubicon** Series Monocrystalline Modules

Grayman 520-560W

144 (6x24) Cells Mono PERC Halfcut

ADVANTAGES OF GRAYMAN PHOTOVOLTAICS MODULES

25 years

TECHNICAL
PRODUCT
WARRANTY

21.19%

MAXIMUM
MODULE
EFFICIENCY

80% after 25 years

PRODUCT
PERFORMANCE
WARRANTY



MBB Cell Technology

Modules are made with 5 BB cells along with strong and smart soldering automatic machine.



Positive power tolerance

All modules are tested. We provide only those that have a positive power tolerance which means, that the customer receives solar modules with no less than declared power.



High performance

Solar cells used in solar modules ensure a high-efficiency rate that goes as high as 21.19%. The selected cells are one of the most advanced ones. Therefore, these modules are unequivocally among the most effective in their category.



Module testing process

During the manufacturing process modules are being tested at least three times, during every stage of manufacturing, therefore they reach the end customer fully checked, A class, and without any visual or electrotechnical defects.



Low Light Performance

Modules work excellent even in low light and has excellent PID resistance.



Resistant to extreme climate conditions

Modules are resistant to the most severe climate conditions. Modules are not afraid of rain, snow, wind, or hail. They can withstand wind and snow load up to 5400Pa.



80% performance warranty after 25 years

After 25 years of operation, Grayman modules will operate with at least 80% efficiency compared to the original power rate of the solar module.



BIS



Factory Address :

Plot No. 106, Sector-16, HSIIDC
Industrial Estate, Bahadurgarh,
Haryana

Office Address :

TC-14, 3rd Floor, Vibhuti Khand,
Gomti Nagar, Lucknow

E-mail: info@graymansolar.com

Toll free Number: 1800 203 5636

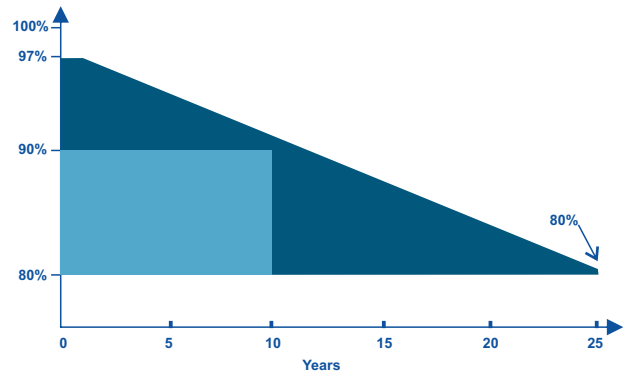
Website :

www.graymansolar.com

ELECTRICAL PARAMETERS @STC

Model Type	GMS-555
Maximum Power (Pmax)	555 Wp
Maximum Voltage (Vmp)	42.24 V
Maximum Current (Imp)	13.14 A
Open Circuit Voltage (Voc)	50.07 V
Short Circuit Current (Isc)	14.17 A
Power tolerance	Positive
Efficiency, %	21.19 %

LINEAR DEGRADATION OF WARRANTY



MECHANICAL PARAMETERS

Solar cell	Monocrystalline, 91x182mm
Cell Arrangement	144 cells (6x24)
Front Cover	3.2mm Tempered Glass
Weight	29.5 kg
Dimensions (LxWxH)	2296 x 1141 x 35 mm
J-box	IP 68, 3 Diodes
Cable cross-section size	4 mm ²
Number of diodes	3
Plug-in connection	MC4 or equivalent
Frame	Anodized Aluminum Alloy
Packing Conguration	25 Pcs/Pallet



Warranty is applicable by Grayman Solar limited warranty terms.

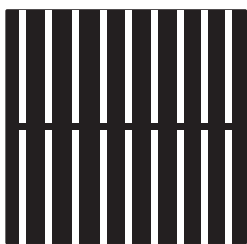
WORKING CONDITIONS

Maximum System Voltage	DC1500V
Operating temperature	-40°C/+85°C
Maximum reverse current	25A
Max. wind load/max. snow load	5400Pa
IP protection level	68
Fire safety class	A

TEMPERATURE COEFFICIENTS

Voltage temperature coefficient	β	-0.26%/°C
Current temperature coefficient	α	0.046 %/°C
Power temperature coefficient	δ	-0.32 %/°C

HD technology + Half-Cell



Half-cell with MBB design decreases internal resistance while boosts power output; narrowed inter-cell gap through flexible welding technology contributes to the module's compact dimension.

IP68 Rated Junction Box

IP68

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

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