

GreenWatts Solar Panels

SUPERIOR PERFORMANCE & RELIABILITY

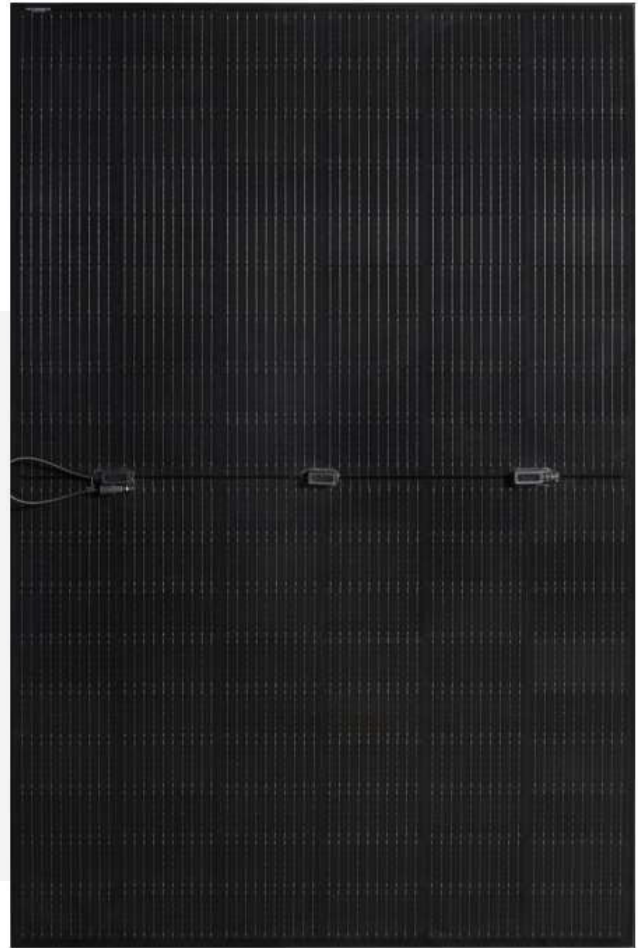
HL54-405-MN

HT54-18X-405

Solar Panel Monocrystalline
Single Glass Perc Lightweight Module

HIGHLIGHTS

- Maximum Power Output: 405W
- Maximum Efficiency: 20.4%
- Number of Cells: 108 (6x18)



Perfect for weight-sensitive and architecturally focused projects

Achieves over 45% weight reduction compared to conventional components.



Easy to transport and install

Mounting can be done without support brackets, securely fixed with structural sealant and tape for a simple and efficient setup.



Flexibility:

Bends up to a 1m (39.37 in) radius on the front, ideal for curved surfaces like low-load roofs, facades, and unique installations.



Reliable performance with low energy losses

Engineered to minimize energy losses, ensuring maximum power output from the solar panel system.

High Reliability



Certification



ISO 9001
ISO 14001
ISO 45001



UL 61730



IEC 61215
IEC 61730



GREEN
WATTS

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MECHANICAL CHARACTERISTICS

Solar Cell	Monocrystalline
Number of Cells	108 (6x18)
Dimensions	1756 x 1128 x 3.5mm 69.13 x 44.41 x 0.14 inches
Weight	12.0 kg 26,455 lb
Glass	High light transmittance coated tempered glass
Frame	Frameless
Junction Box	IP68 Rated
Output Cables	4mm ² 0.00620001 in ² (IEC)
Connectors	MC4
Maximum Power in STC (Pmax)	405 W
Maximum Operating Voltage (Vmp)	31.31 V
Maximum Operating Current (Imp)	12.95 A
Open Circuit Voltage (Voc)	37.19 V
Short Circuit Current (Isc)	13.91 A
Module efficiency	20.4%
Operating Temperature of the module	-40°C ~ +85°C
Maximum System Voltage	1500V DC
Power Tolerance	0 ~ +3%
STC	Irradiance 1000W/m ² , Cell Temperature 25°C, Air Mass 1.5

TEMPERATURE CHARACTERISTICS

NMOT	43 ±2 °C 109.4 ±35.6 °F
Temperature Coefficient of P _{MAX}	-0.33% /°C
Temperature Coefficient of V _{OC}	-0.26% /°C
Temperature Coefficient of I _{SC}	+0.042% /°C

PACKING CONFIGURATION

Module per Box	62 Pieces
Module per 40' Container	744 Pieces

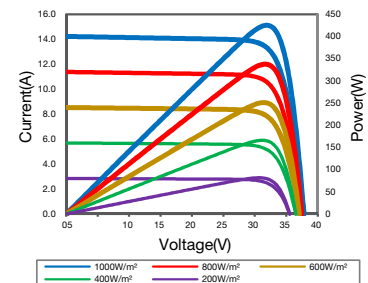
ADDITIONAL INFORMATION

Snow and wind loads	Wind - 2400Pa Snow - 2400Pa
IEC Protection Class (I, II, III)	II
Max installation altitude	2000m
Max Series Fuse Rating	25A
Fire Rating	TUV Class C
Front Cover (material / glass thickness)	AR 1.6mm
Back Cover (material / glass thickness)	0.315mm

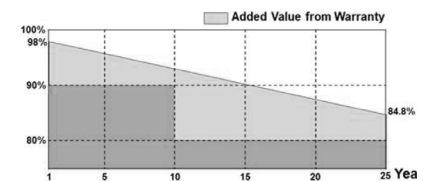
ENGINEERING DRAWING



I_xV CURVE



PERFORMANCE WARRANTY



*Specific information is referred to the product quality guarantee



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