

GreenWatts Solar Panels

SUPERIOR PERFORMANCE & RELIABILITY

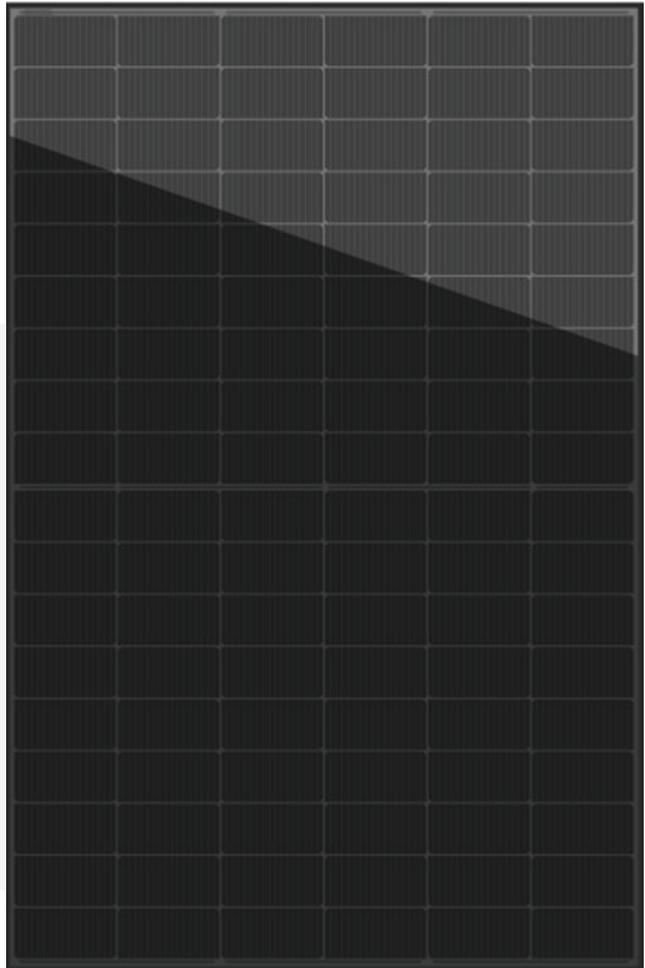
HS54-430-BOB(N)

HT54-18X(N)-430

Solar Panel Monocrystalline
Single Glass TopCon Module

HIGHLIGHTS

- Maximum Power Output: 430W
- Maximum Efficiency: 22.0%
- Number of Cells: 108 (6x18)
- All-Black Series



Optimized for High Voltage Systems

- Specifically designed to align with advanced high voltage system requirements.
- Maximum Efficiency up to 22.0%
- Cost effective solutions designed to offer a competitive balance of system cost suitable for utility-scale projects.



Enhanced Efficiency with Half Cut Cell Technology

- Minimizes resistive losses and reduces shading impact, boosting overall efficiency.
- Ensures long term performance against Potential-Induced Degradation.



Durability in Extreme Conditions

- Engineered to endure harsh environmental conditions, such as extreme temperatures, high humidity, salt, mist, and sand.
- Supports up to 5400 Pa for snow loads and 2400 Pa for wind loads, reinforcing module reliability in diverse environmental conditions.

High Reliability



Certification:



ISO 9001
ISO 14001
ISO 45001

UL 61730

IEC 61215
IEC 61730



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MECHANICAL CHARACTERISTICS

Solar Cell	Monocrystalline 182 x 91mm
Number of Cells	108 (6x18)
Dimensions	1722 x 1134 x 30mm 67.80 x 44.65 x 1.18 inches
Weight	21.0 kg 46,297 lb
Glass	High light transmittance coated tempered glass
Frame	Anodized aluminium alloy
Junction Box	IP68 Rated
Output Cables	4mm ² 0.00620001 in ² (IEC)
Connectors	MC4
Maximum Power in STC (Pmax)	430 W
Maximum Operating Voltage (Vmp)	31.90 V
Maximum Operating Current (Imp)	13.50 A
Open Circuit Voltage (Voc)	38.30 V
Short Circuit Current (Isc)	14.23 A
Module efficiency	22.0%
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}	-0.31% /°C
Temperature Coefficient of V _{OC}	-0.25% /°C
Temperature Coefficient of I _{SC}	+0.046% /°C

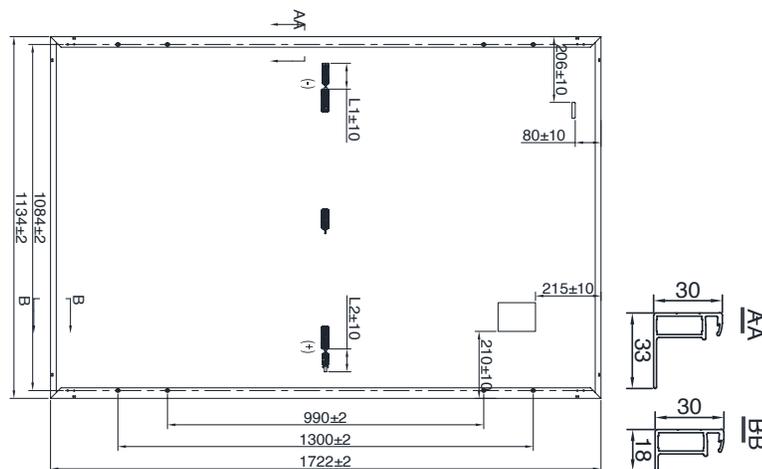
PACKING CONFIGURATION

Module per Box	36 Pieces
Module per 40' Container	936 Pieces

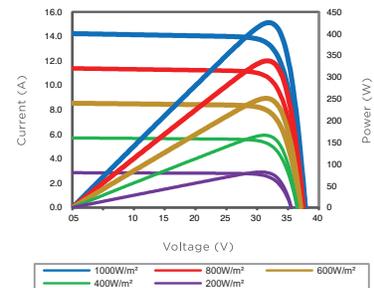
ADDITIONAL INFORMATION

Snow and wind loads	Wind - 2400Pa Snow - 5400Pa
IEC Protection Class (I, II, III)	II
Max installation altitude	2000m
Allow roof pitch/angle	Minimum 10 degrees
Max Series Fuse Rating	25A
Fire Rating	Type 1
Front Cover (material / glass thickness)	AR 3.2mm
Back Cover (material / glass thickness)	0.315mm

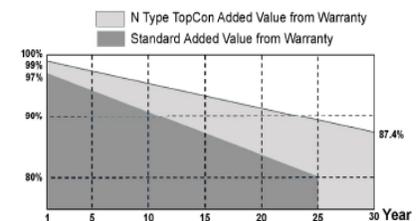
ENGINEERING DRAWING



I_xV CURVE



PERFORMANCE WARRANTY



*Specific information is referred to the product quality guarantee



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