

GreenWatts Solar Panels

SUPERIOR PERFORMANCE & RELIABILITY

HS72-F-580-MN(N)

HT72-18X(ND)-F-580

Solar Panel Monocrystalline
Double Glass TopCon Module

HIGHLIGHTS

- Maximum Power Output: 580W
- Maximum Efficiency: 22.5%
- Number of Cells: 144 (6x24)
- Bifaciality: 80 ±5 %



Optimized for High Voltage Systems

- Specifically designed to align with advanced high voltage system requirements.
- Maximum Efficiency up to 22.5%
- 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	144 (6x24)
Dimensions	2278 x 1134 x 30mm 89.69 x 44.65 x 1.18 inches
Weight	32.5 kg 71,650 lb
Front Glass	High transmission coated tempered glass
Back Glass	Heat strengthened 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)	580 W
Maximum Operating Voltage (Vmp)	43.10 V
Maximum Operating Current (Imp)	13.47 A
Open Circuit Voltage (Voc)	51.30 V
Short Circuit Current (Isc)	14.39 A
Module efficiency	22.5%
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 PMAX	-0.31% /°C
Temperature Coefficient of VOC	-0.25% /°C
Temperature Coefficient of ISC	+0.046% /°C

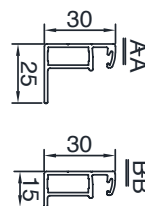
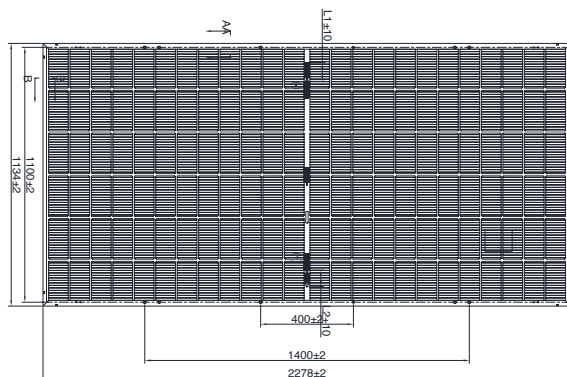
PACKING CONFIGURATION

Module per Box	36 Pieces
Module per 40' Container	720 Pieces

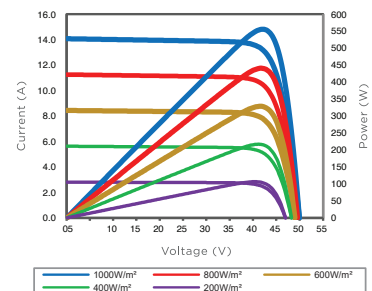
ADDITIONAL INFORMATION

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 29
Front Cover (material / glass thickness)	AR 2.0mm
Back Cover (material / glass thickness)	Normal glass 2.0mm
Bifaciality	80 ±5 %

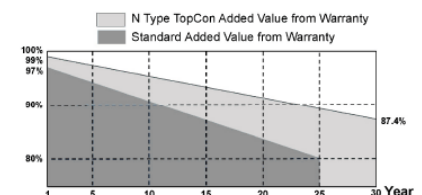
ENGINEERING DRAWING



IxV CURVE



PERFORMANCE WARRANTY



*Specific information is referred to the product quality guarantee



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