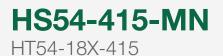
GreenWatts Solar Panels

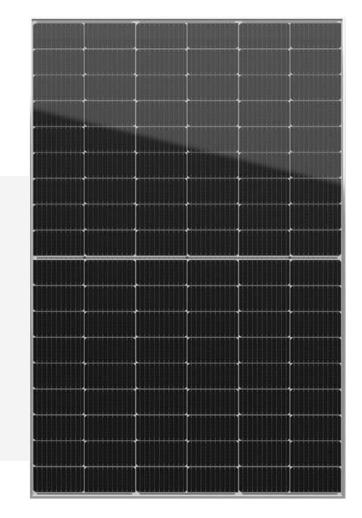
SUPERIOR PERFORMANCE **& RELIABILITY**



Solar Panel Monocrystalline Single Glass Perc Module

HIGHLIGHTS

- Maximum Power Output: 415W
- Maximum Efficiency: 21.3%
- Number of Cells: 108 (6x18)





Optimized for High Voltage Systems

- Specifically designed to align with advanced high voltage system requirements.

- Maximum Efficiency up to 21.3% - Cost effective solutions designed to offer a competitive balance of system cost suitable for utility-scale projects.



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.



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.

High Reliability





ISO 14001 ISO 45001

Certification:









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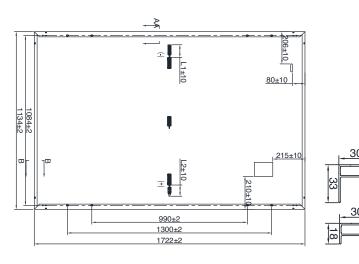
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MECHANICAL CHARACTERISTICS

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)		415 W	
Maximum Operating Voltage (Vmp) 31.60 V			
Maximum Operating Current (Imp)		13.14 A	
Open Circuit Voltage (Voc)		37.48 V	
Short Circuit Current (Isc)		14.06 A	
Module efficiency		21.3%	
Operating Temperature of the module		-40°C ~ +85°C	
Maximum System Voltage		1500V DC	
Power Tolerance		0 ~ +3%	

STC Irradiance 1000W/m², Cell Temperature 25°C, Air Mass 1.5

ENGINEERING DRAWING



TEMPERATURE CHARACTERISTICS

NMOT	43 ±2 °C 109.4 ±35.6 °F
Temperature Coefficient of PMAX	-0.33% /°C
Temperature Coefficient of VOC	-0.26% /°C
Temperature Coefficient of ISC	+0.042% /°C

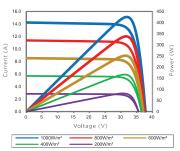
PACKING CONFIGURATION

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

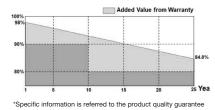
ADDITIONAL INFORMATION

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

IxV CURVE



PERFORMANCE WARRANTY





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