

GreenWatts Solar Panels

# SUPERIOR PERFORMANCE & RELIABILITY

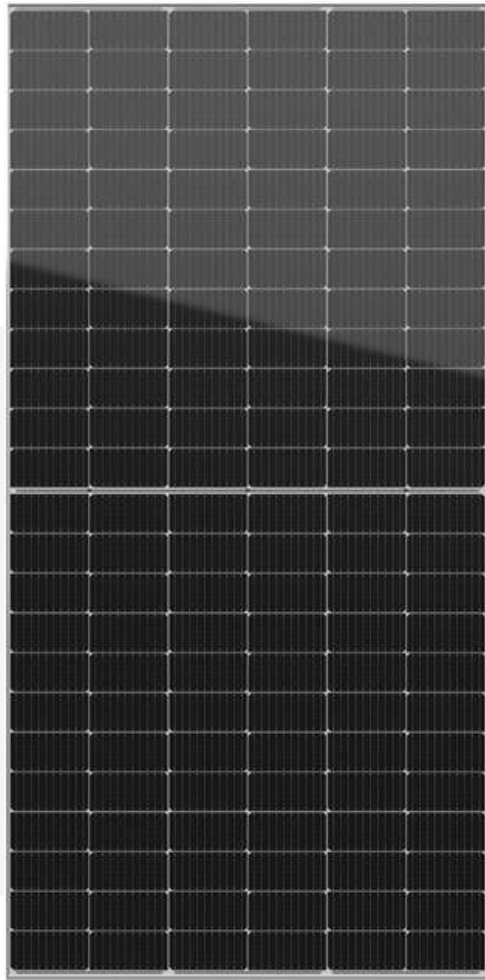
## HS72-F-550-MN

HT72-18X(PD)-F-550

Solar Panel Monocrystalline  
Double Glass Perc Module

### HIGHLIGHTS

- Maximum Power Output: 550W
- Maximum Efficiency: 21.3%
- Number of Cells: 144 (6x24)
- Bifaciality: 70 ±5 %



### 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



Certification:



ISO 9001  
ISO 14001  
ISO 45001



UL 61730



IEC 61215  
IEC 61730



**GREEN  
WATTS**

P: +1 (619) 354-3094  
E: sales@greenwatts.solar  
W: greenwatts.solar

Los Angeles  
9255 Sunset Blvd, Los  
Angeles, CA 90069

San Diego  
1094 Cudahy Place, Suite 212,  
San Diego, CA 92110

## MECHANICAL CHARACTERISTICS

|                                     |                                                                       |
|-------------------------------------|-----------------------------------------------------------------------|
| Solar Cell                          | Monocrystalline<br>182 x 91mm                                         |
| Number of Cells                     | 144 (6x24)                                                            |
| Dimensions                          | 2278 x 1134 x 30mm<br>89.69 x 44.65 x 1.18 inches                     |
| Weight                              | 32.5 kg   71,650 lb                                                   |
| Front Glass                         | High transmission<br>coated tempered glass                            |
| Back Glass                          | Heat strengthened glass                                               |
| Frame                               | Anodized aluminium alloy                                              |
| Junction Box                        | IP68 Rated                                                            |
| Output Cables                       | 4mm <sup>2</sup>   0,00620001 in <sup>2</sup> (IEC)                   |
| Connectors                          | MC4                                                                   |
| Maximum Power in STC (Pmax)         | 550 W                                                                 |
| Maximum Operating Voltage (Vmp)     | 41.95 V                                                               |
| Maximum Operating Current (Imp)     | 13.12 A                                                               |
| Open Circuit Voltage (Voc)          | 49.80 V                                                               |
| Short Circuit Current (Isc)         | 14.00 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/m <sup>2</sup> , Cell Temperature 25°C, Air Mass 1.5 |

## TEMPERATURE CHARACTERISTICS

|                                             |                            |
|---------------------------------------------|----------------------------|
| NMOT                                        | 43 ±2 °C<br>109.4 ±35.6 °F |
| Temperature Coefficient of P <sub>MAX</sub> | -0.33% /°C                 |
| Temperature Coefficient of V <sub>OC</sub>  | -0.26% /°C                 |
| Temperature Coefficient of I <sub>SC</sub>  | +0.042% /°C                |

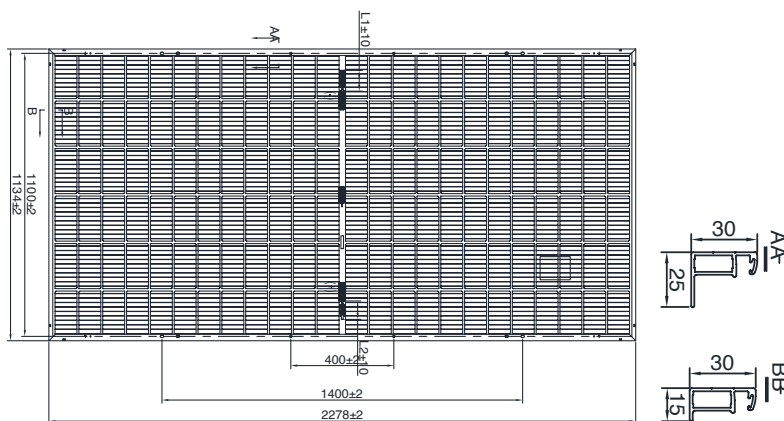
## PACKING CONFIGURATION

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

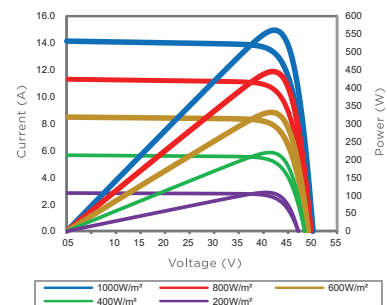
## ADDITIONAL INFORMATION

|                                          |                                |
|------------------------------------------|--------------------------------|
| Snow and wind loads                      | Wind - 2400Pa<br>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<br>2.0mm                    |
| Back Cover (material / glass thickness)  | Normal glass<br>2.0mm          |
| Bifaciality                              | 70 ±5 %                        |

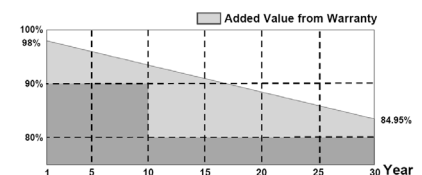
## ENGINEERING DRAWING



## IxV CURVE



## PERFORMANCE WARRANTY



\*Specific information is referred to the product quality guarantee