



GreenWatts Solar Panels

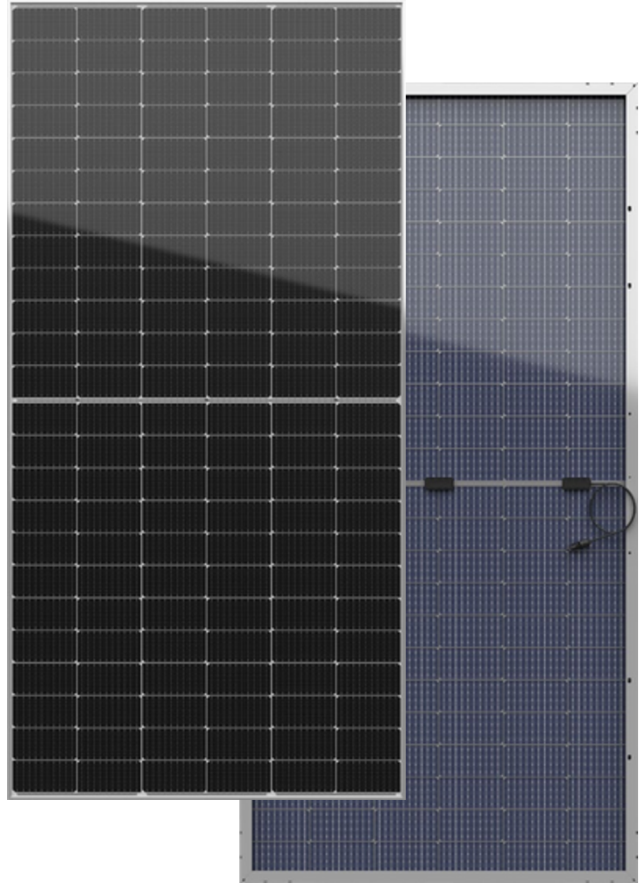
in partnership with HT-SAAE

550W HT72-18X(PD)-F Double Glass

High Efficiency Low LID and PERC cell with
Half-cut Technology
Big Size : Cell 182 × 91mm Monocrystalline

HIGHLIGHTS

- Module Efficiency
21.7%
- Number of Cells
144 (6 × 24)
- Weight
32.5±0.5kg
- Dimensions
2278 × 1134 × 35mm



Optimized for High Voltage Systems

- Specifically designed to align with advanced high voltage system requirements.
- Maximum Efficiency up to 22.4%
- 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

Comprehensive and First-rate Certification System

IEC61215: 2016 // IEC61730: 2016 // UL61730: 2017 // IEC 62804: 2015
ISO9001 // ISO14001 // ISO45001



**GREEN
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Electrical Characteristics

Module	HT72-18X(PD)-F				
Maximum Power at STC (Pmax)	540W	545W	550W	555W	560W
Open - Circuit Voltage (Voc)	49.50V	49.65V	49.80V	49.95V	50.10V
Short - Circuit Current (Isc)	13.90A	13.95A	14.00A	14.07A	14.14A
Optimum Operating Voltage (Vmp)	41.65V	41.80V	41.95V	42.10V	42.25V
Optimum Operating Current (Imp)	12.97A	13.05A	13.12A	13.20A	13.27A
Module efficiency	20.9%	21.1%	21.3%	21.5%	21.7%
Power Tolerance	0 ~ + 3%				
Maximum System Voltage	1500V DC (UL / IEC)				
Maximum Series Fuse Rating	25A				
Operating Temperature	-40 °C to +85°C				

* STC: Irradiance 1000W/m², module temperature 25, AM=1.5
Optional black frame or white frame module according to customer requirements

NMOT

Module	HT72-18X(PD)-F (Bifaciality 75±5%)				
Maximum Power	402W	405W	409W	413W	417W
Open - Circuit Voltage (Voc)	46.92V	47.06V	47.20V	47.34V	47.48V
Short - Circuit Current (Isc)	11.22A	11.26A	11.30A	11.36A	11.41A
Maximum Power Voltage (Vmp)	39.48V	39.62V	39.76V	39.90V	40.04V
Maximum Circuit Current (Imp)	10.18A	10.22A	10.29A	10.35A	10.41A
NMOT	45±2°C				

* NMOT: Irradiance 800W/m², ambient temperature 20°C, wind speed 1m/s

Mechanical Characteristics

Solar Cells	Monocrystalline 182 × 91mm
No. of Cells	144 (6 × 24)
Dimensions	2278 × 1134 × 35mm
Weight	32.5±0.5kg
Front Glass	High transmission tempered glass; thickness; 2.0mm
Frame	Anodized aluminium alloy
Junction Box	IP68
Cable	4 mm ² (UL/ IEC) length: (+)310mm, (-)260mm / customized length
Connectors	MC4-EVO2/M C4 Compatible
Packaging Configuration	31pcs / box , 620pcs / 40'HQ container

Temperature Characteristics

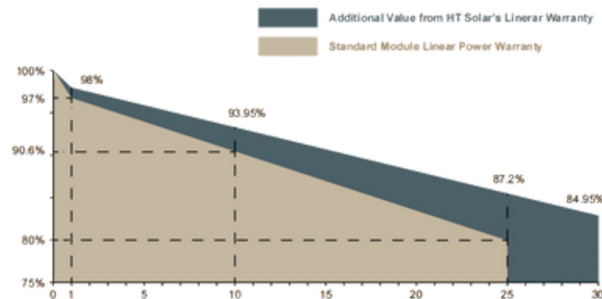
Temperature Coefficient of Pmax	-0.326%/°C
Temperature Coefficient of Voc	-0.258%/°C
Temperature Coefficient of Isc	+0.051%/°C

Warranty

25 - years
product warranty

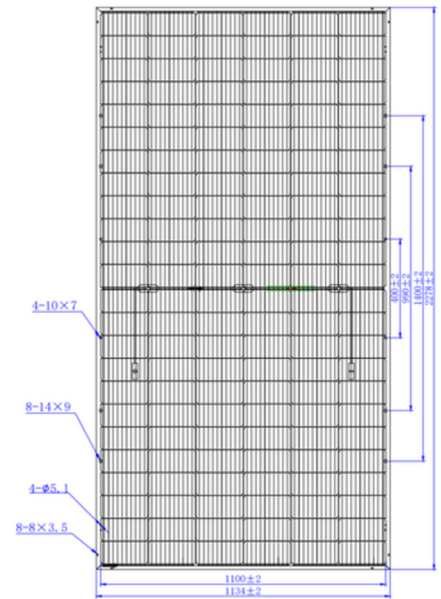
30 - years
warranty on power output

Specific information is referred to
the product quality guarantee

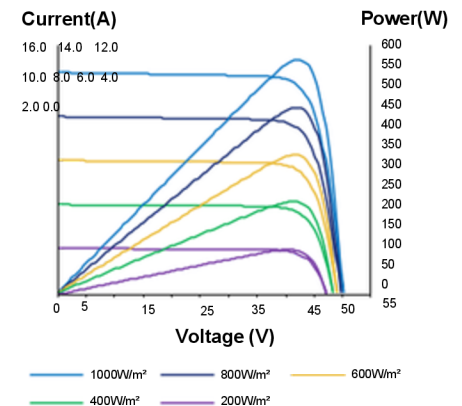


The module recycling should be carried out by the professional institutions at the end of module life cycle

Engineering Drawing



IV Curves



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