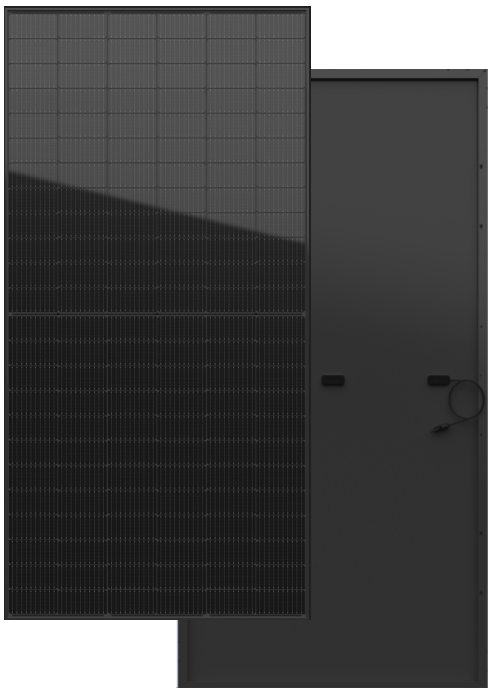
HT-SAAE

MULTIWAY+

HT72-166M Full Black

High Efficiency Low LID and PERC cell with Half-cut Technology
Big Size: Cell 166mm× 83mm Monocrystalline

445W / 450W
455W / 460W / 465W



- Module Efficiency
  21.4%
- No.of Cells
  144 (6 × 24)
- Weight
  23.5kg
- Dimensions
  2094mm × 1038mm × 35mm

Half cut cell technology can reduce the internal power loss and improve component overall power. Excellent heat dissipation avoids hot spot production.

9BB The optimized number and width of main gate lines, Maximize the light receiving area of components and reduce component power consumption

Designed for high voltage systems of up to 1500 VDC, increasing the string length of solar systems and saving on BOS costs

Entire module certified to with stand extreme wind (2400 Pa) and snow loads (5400 Pa)

All the modules are sorted and packaged by amperage, reducing mismatch losses and maximizing system output.

12Ys
products

25Ys
warranty on power output

PID
PID resistant

5W
positive tolerance 0/+5W guaranteed

EL
microcrack resistant high performance Black backsheet
structure enhance reliability, triple EL tested of high quality control.

Comprehensive and First-rate Certification System

IEC61215: 2021 . IEC61730: 2023 . UL61730: 2017 . IEC62804: 2015
ISO9001 . ISO14001 . and . ISO45001

www.htsolar.com.tr
Turkey HT Solar Energy Joint Stock Company

MULTIWAY+

Better Choice For Higher Efficiency

HT-SAAE

Electrical Characteristics

Module	HT72-166M				
Maximum Power at STC (Pmax)	445W	450W	455W	460W	465W
Open - Circuit Voltage (Voc)	49.9V	50.0V	50.1V	50.2V	50.3V
Short - Circuit Current (Isc)	11.72A	11.83A	11.96A	12.06A	12.16A
Optimum Operating Voltage (Vmp)	41.00V	41.1V	41.4V	41.5V	41.60V
Optimum Operating Current (Imp)	10.86A	10.96A	10.99A	11.09A	11.18A
Module efficiency	20.5%	20.7%	20.9%	21.2%	21.4%
Power Tolerance	0 ~ + 5W				
Maximum System Voltage	1500V DC (UL / IEC)				
Maximum Series Fuse Rating	20A				
Operating Temperature	-40 ℃to +85℃				

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

NMOT

Module	HT72-166M				
Maximum Power	329W	333W	337W	342W	346W
Open - Circuit Voltage (Voc)	47.1V	47.2V	47.3V	47.4V	47.5V
Short - Circuit Current (Isc)	9.44A	9.55A	9.66A	9.76A	9.87A
Maximum Power Voltage (Vmp)	38.7V	38.8V	38.9V	39.00V	39.1V
Maximum Circuit Current (Imp)	8.50A	8.58A	8.66A	8.74A	8.82A
NMOT	45±2℃				

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

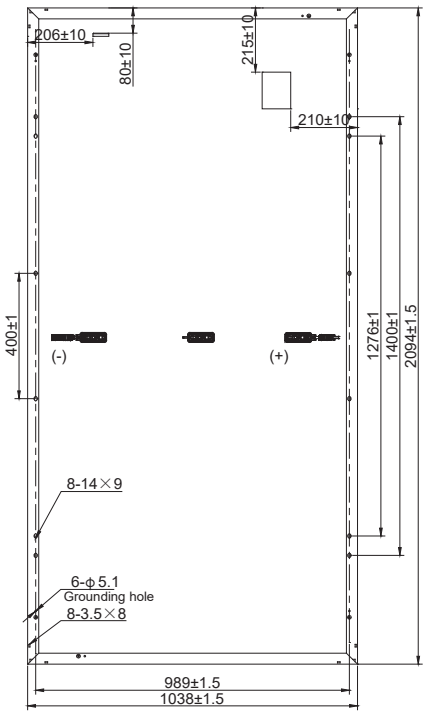
Mechanical Characteristics

Solar Cells	Monocrystalline 166 × 83mm
No.of Cells	144 (6 × 24)
Dimensions	2094mm × 1038mm × 35mm
Weight	23.5kg
Front Glass	High transmission tempered glass; thickness; 3.2mm
Frame	Anodized aluminium alloy
Junction Box	IP68
Cable	4mm² (UL / IEC) length：(+) 400mm (-) 200mm / length can be customized
Connectors	MC_4 / MC_4 compatible
Packaging Configuration	31pcs / box, 737pcs / 40'HQ container

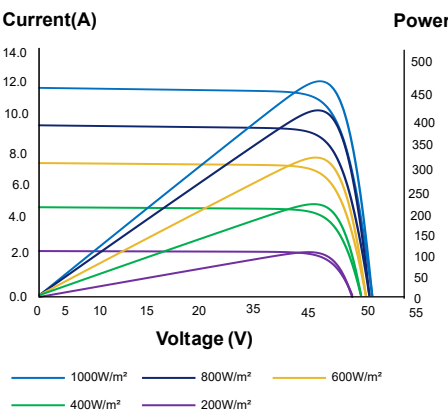
Temperature Characteristics

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

Engineering Drawing



IV Curves

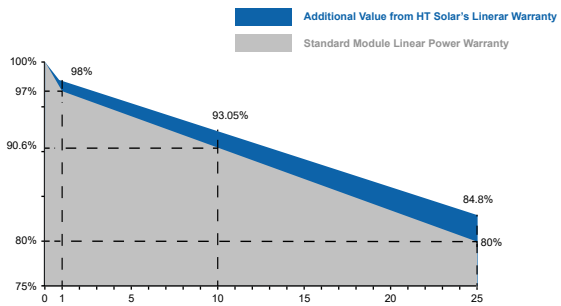


Warranty

12 - years
product warranty

25 - 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

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