

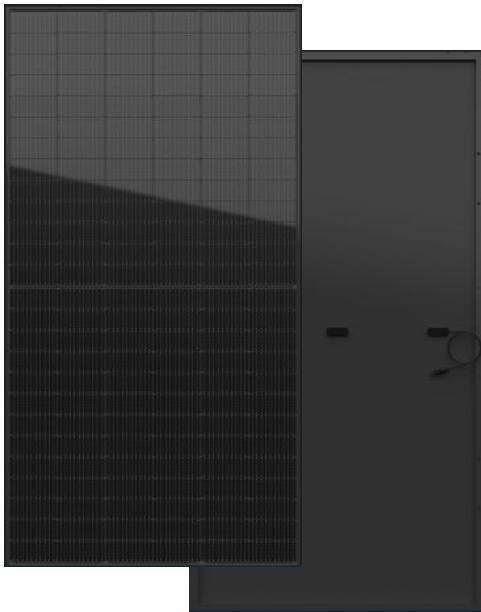
HT78-18X Full Black

High Efficiency Low LID and PERC cell with Half-cut Technology

Big Size: Cell 182mm× 91mm Monocrystalline

585W / 590W

595W / 600W / 605W



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



10BB 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 backsheets structure enhance reliability, triple EL tested of high quality control.

Comprehensive and First-rate Certification System

IEC61215: 2016.IEC61730: 2016 Latest Standard ISO14001 and ISO45001, meeting the highest international standards Strict quality control



Module Efficiency
21.6%

No.of Cells
156 (6 × 26)

Weight
29.0kg

Dimensions
2464mm × 1134mm × 35mm

Shanghai Aerospace Automobile Electromechanical Co., Ltd.

www.htsolar.com.tr

Turkey HT Solar Energy Joint Stock Company / Lianyungang ShenZhou New Energy Co., Ltd.

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Electrical Characteristics

Module	HT78-18X				
Maximum Power at STC (Pmax)	585W	590W	595W	600W	605W
Open - Circuit Voltage (Voc)	53.77V	53.92V	53.94V	54.09V	54.24V
Short - Circuit Current (Isc)	13.89A	13.96A	14.03A	14.10A	14.17A
Optimum Operating Voltage (Vmp)	45.13V	45.28V	45.43V	45.58V	45.73V
Optimum Operating Current (Imp)	12.97A	13.04A	13.11A	13.17A	13.24A
Module efficiency	20.9%	21.1%	21.3%	21.4%	21.6%
Power Tolerance	0 ~ + 5W				
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

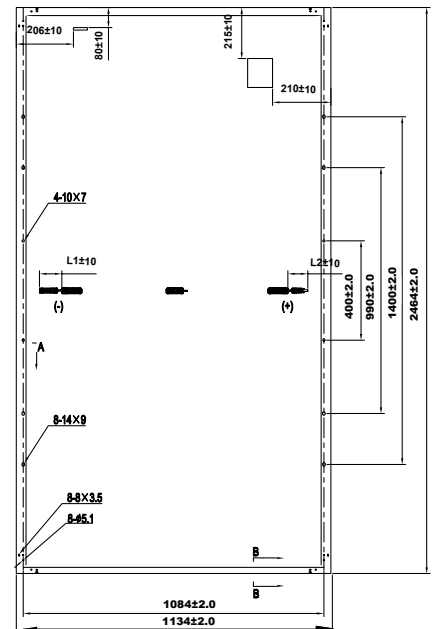
Module	HT78-18X				
Maximum Power	435W	439W	443W	446W	450W
Open - Circuit Voltage (Voc)	50.84V	50.98V	51.12V	51.27V	51.41V
Short - Circuit Current (Isc)	11.21A	11.27A	11.32A	11.38A	11.44A
Maximum Power Voltage (Vmp)	42.77V	42.92V	43.06V	43.20V	43.34V
Maximum Circuit Current (Imp)	10.17A	10.23A	10.29A	10.32A	10.38A
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	156(6 × 26)
Dimensions	2464mm × 1134mm × 35mm
Weight	29.0kg
Front Glass	High transmission tempered glass; thickness; 3.2mm
Frame	Anodized aluminium alloy
Junction Box	IP68
Cable	4mm ² (UL / IEC) length; (+) 400mm (-) 200mm / length can be customized
Connectors	MC ₄ / MC ₄ compatible
Packaging Configuration	31pcs / box, 496pcs / 40'HQ container

Engineering Drawing



Temperature Characteristics

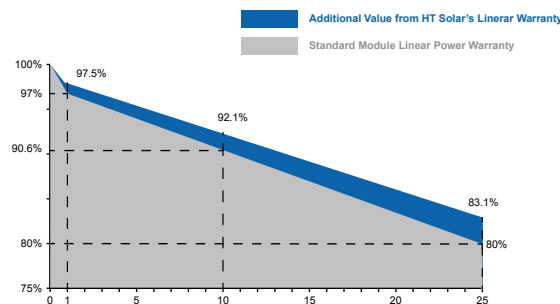
Temperature Coefficient of Pmax	-0.326%/°C
Temperature Coefficient of Voc	-0.258%/°C
Temperature Coefficient of Isc	+0.051%/°C

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

IV Curves

