

HT54-18X

NEW

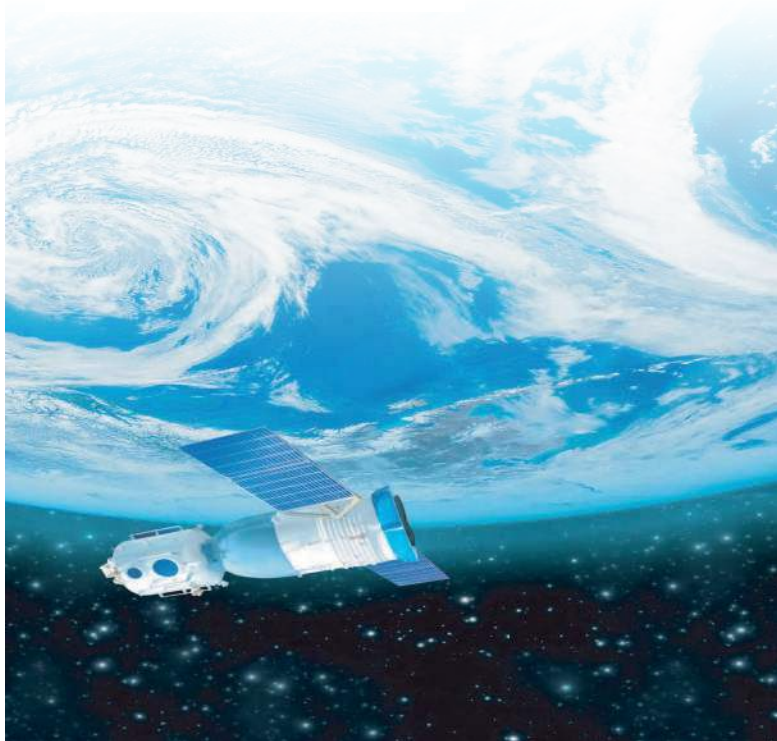
POWER OUTPUT

405W / 410W
415W / 420W / 425W



- Module Efficiency: 21.7%
- No. of Cells: 108 (6 × 18)
- Weight: 21.0kg
- Dimensions: 1724mm×1134mm×30mm

monocrystalline
182 × 91mm



MULTIWAY

Shanghai Aerospace Automobile
Electromechanical Co., Ltd.
website: www.ht-saae.com

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



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



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

25Ys
Products
Warranty



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

25Ys
Warranty on
power output



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

EL

Microcrack resistant Double glass structure enhance reliability, triple EL tested of high quality control.

5W

Positive tolerance 0/+5w guaranteed



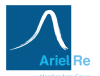
Entire module certified to with stand extreme wind (2400 Pa) and snow loads (5400 Pa)

PID

PID Resistant

Comprehensive and first-rate certification system

IEC61215: 2016, IEC61730: 2016 Latest Standard
ISO9001, ISO14001 and ISO45001,
meeting the highest international standards
Strict quality control



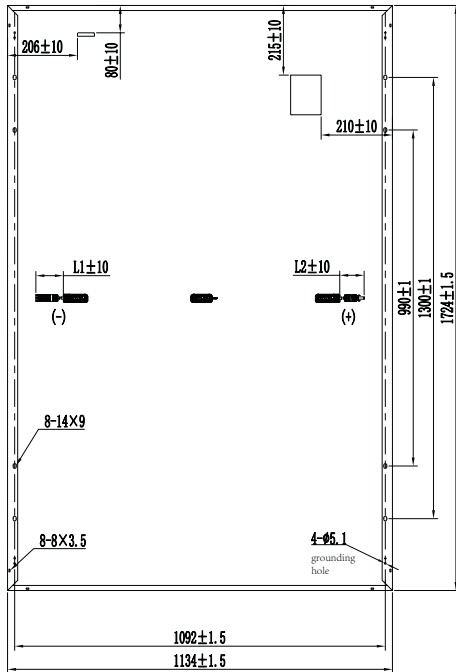
CEC Listed



Bloomberg
TIER 1

405W/410W/415W/420W/425W

Engineering Drawing



Electrical Characteristics

Module	HT54-18X				
Maximum Power at STC(Pmax)	405W	410W	415W	420W	425W
Open-Circuit Voltage(Voc)	37.19V	37.33V	37.48V	37.63V	37.79V
Short-Circuit Current(Isc)	13.91A	13.98A	14.06A	14.14A	14.22A
Optimum Operating Voltage (Vmp)	31.31V	31.44V	31.60V	31.74V	31.91V
Optimum Operating Current(Imp)	12.95A	13.05A	13.14A	13.24A	13.33A
Module Efficiency	20.7%	21.0%	21.2%	21.5%	21.7%
Power Tolerance	0 ~ +5W				
Maximum System Voltage	1500V DC(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	HT54-18X				
Maximum Power	301W	305W	309W	312W	316W
Open Circuit Voltage (Voc)	35.25V	35.38V	35.52V	35.67V	35.82V
Short Circuit Current (Isc)	11.23A	11.28A	11.35A	11.41A	11.48A
Maximum Power Voltage (Vmp)	29.68V	29.80V	29.95V	30.08V	30.24V
Maximum Circuit Current (Imp)	10.14A	10.23A	10.32A	10.37A	10.45A
NMOT	45°C±2°C				

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

Mechanical Characteristics

Solar Cells	monocrystalline 182 × 91mm
No. of Cells	108(6 × 18)
Dimensions	1724mm×1134mm×30mm
Weight	21.0kg
Front Glass	High transmission tempered glass
Frame	Anodized aluminium alloy
Junction Box	IP68
Cable	4mm ² (IEC) Length:(+)200mm,(-)300mm
Connectors	MC4 / MC4 Compatible
Packaging Configuration	36pcs / box, 936pcs / 40'HQ Container

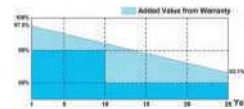
Temperature Characteristics

Temperature Coefficient of Pmax	γ (Pm)	-0.39%/K
Temperature Coefficient of Voc	β (Voc)	-0.29%/K
Temperature Coefficient of Isc	α (Isc)	0.049%/K

Warranty

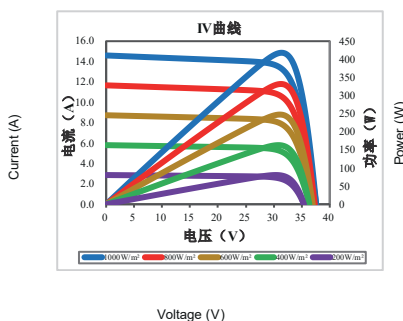
- 25-year product warranty
- 25-year warranty on power output

Specific information is referred to the product quality guarantee



I-V Curves

Current-Voltage & Power-Voltage Curve



Information Box

DS18X-005-A2