

HT60-18X

NEW

POWER OUTPUT

455W / 460W
465W / 470W / 475W



- Module Efficiency: 21.9%
- No. of Cells: 120 (6 × 20)
- Weight: 23.0kg
- Dimensions: 1909 mm × 1134 mm × 30 mm

monocrystalline
182 × 91 mm



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**

25Ys
**Warranty on
power output**



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



**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.**



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

5W

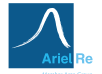
**Positive tolerance
0/+5w guaranteed**

PID

PID Resistant

Comprehensive and first-rate certification system

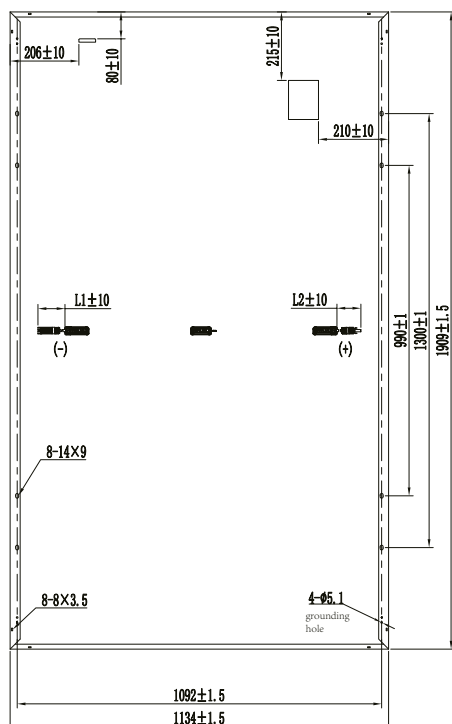
IEC61215: 2016, IEC61730: 2016 Latest Standard
ISO9001, ISO14001 and ISO45001,
meeting the highest international standards
Strict quality control



CEC Listed



Engineering Drawing



Electrical Characteristics

Module	HT60-18X				
Maximum Power at STC(Pmax)	455W	460W	465W	470W	475W
Open-Circuit Voltage(Voc)	41.48V	41.63V	41.78V	41.93V	42.08V
Short-Circuit Current(Isc)	13.97A	14.04A	14.11A	14.18A	14.25A
Optimum Operating Voltage (Vmp)	34.93V	35.08V	35.23V	35.38V	35.53V
Optimum Operating Current(Imp)	13.04A	13.13A	13.22A	13.30A	13.38A
Module Efficiency	21.0%	21.2%	21.5%	21.7%	21.9%
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	HT60-18X				
Maximum Power	338W	342W	346W	350W	353W
Open Circuit Voltage (Voc)	39.31V	39.46V	39.60V	39.74V	39.88V
Short Circuit Current (Isc)	11.27A	11.33A	11.39A	11.44A	11.50A
Maximum Power Voltage (Vmp)	33.11V	33.25V	33.39V	33.53V	33.68V
Maximum Circuit Current (Imp)	10.21A	10.29A	10.36A	10.44A	10.48A
NMOT	45°C±2°C				

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

Mechanical Characteristics

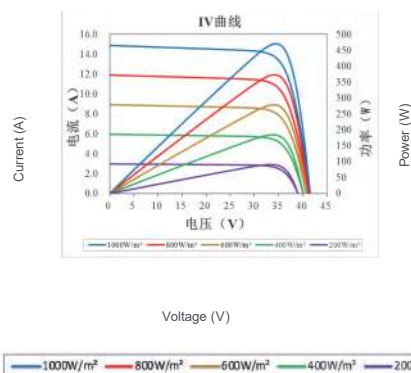
Solar Cells	monocrystalline 182 × 91mm
No. of Cells	120(6 × 20)
Dimensions	1909mm×1134mm×30mm
Weight	23.0kg
Front Glass	High transmission tempered glass
Frame	Anodized aluminium alloy, silver / black frame
Junction Box	IP68
Cable	4mm ² (IEC) Length: (+)200mm, (-)300mm
Connectors	MC4 / MC4 Compatible
Packaging Configuration	36pcs / box, 864pcs / 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

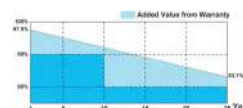
I-V Curves

Current-Voltage & Power-Voltage Curve



Warranty

25-year product warranty
25-year warranty on power output
Specific information is referred to the product quality guarantee



Information Box

DS18X-004-A2