

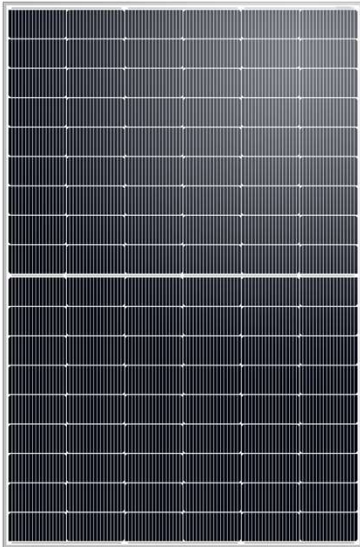
HT54-18X(N)

Single Glass N-Type TOPCon Module

HIGH

High Power

**HT54-18X(N)-420W/
425W/430W/435W/440W**



- The Latest **N-Type** Mono Cell Technology
- Module Efficiency Up To 22.5%
- No. of Cells: 108 (6×18)
- Weight: 21.0 (±0.5) kg
- Dimensions: 1722×1134×30mm
- Cell Dimensions: 182×91mm
- Designed For The Australian Market



Shanghai Aerospace Automobile
Electromechanical Co., Ltd.

Website: www.ht-saae.com.au

Address: 222 Caoxi Rd, 8th Floor of Spaceflight

Made in China



Half-cut cell technology,
reducing internal power
loss and improving module
overall power;
offers excellent heat
dissipation helping to avoid
hot spot production.

TOPCon

Optimised number and width
of main gate lines,
maximising light receiving
area and reducing module
power consumption.



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

Up To
30Yrs
Product Warranty
**12Yrs for Ground Mounted
30Yrs for Rooftop**

30Yrs
Warranty on Power Output

EL Tested

Microcrack resistant
for enhance reliability,
double EL tested with
high level of quality control.



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



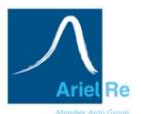
All the modules are sorted
and packaged by
amperage, reducing
mismatch losses and
maximising system output.

Anti-PID

PID Resistant

Comprehensive and first-rate certification system

IEC 61215:2016, IEC 61730:2016 Latest Standard,
ISO 9001, ISO 14001 and ISO 45001
Modules are ensured to meet the highest
international standards' strict quality control



HT54-18X(N)-420W/425W/430W/435W/440W

Electrical Characteristics (STC)

Module Type	HT54-18X(N)				
Maximum Power(Pmax)	420W	425W	430W	435W	440W
Open Circuit Voltage(Voc)	38.1V	38.2V	38.3V	38.4V	38.6V
Short Circuit Current(Isc)	14.07A	14.15A	14.23A	14.31A	14.39A
Maximum Power Voltage(Vmp)	31.5V	31.7V	31.9V	32.0V	32.2V
Maximum Power Current(Imp)	13.34A	13.42A	13.50A	13.60A	13.68A
Module Efficiency	21.5%	21.8%	22.0%	22.3%	22.5%
Power Tolerance	±3%W				
Maximum System Voltage	1500V DC(IEC)				
Maximum Series Fuse Rating	25A				
Operating Temperature	-40°C to +85°C				

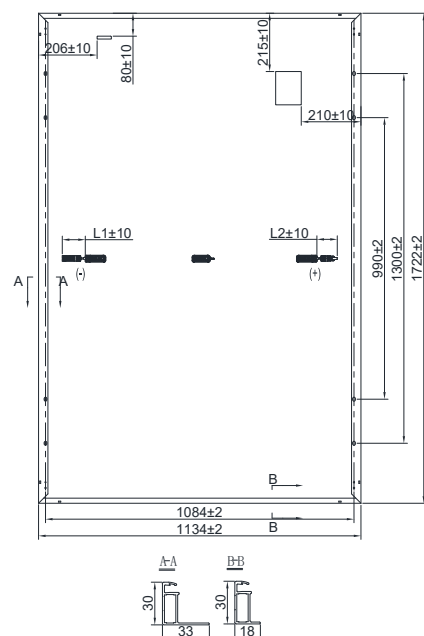
* STC: AM 1.5, Irradiance 1000W/m², module temperature 25°C

Electrical Characteristics (NMOT)

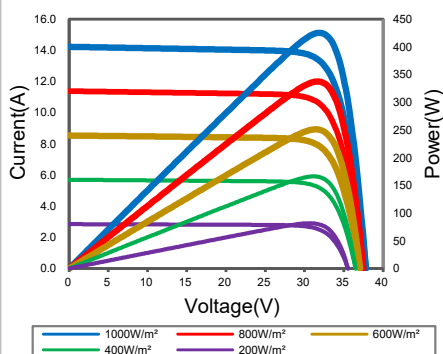
Module Type	HT54-18X(N)				
Maximum Power(Pmax)	319W	323W	327W	331W	335W
Open Circuit Voltage(Voc)	36.6V	36.7V	36.8V	36.9V	37.1V
Short Circuit Current(Isc)	11.34A	11.40A	11.47A	11.53A	11.60A
Maximum Power Voltage(Vmp)	30.2V	30.4V	30.6V	30.7V	30.9V
Maximum Power Current(Imp)	10.56A	10.63A	10.69A	10.78A	10.84A

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

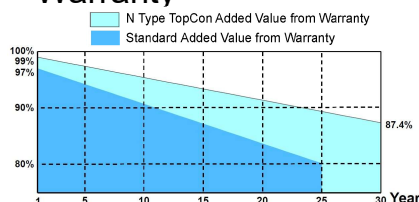
Nominal Module Operating Temperature(NMOT)	43±2°C
Temperature Coefficient of Pmax	γ (Pm) -0.31%/°C
Temperature Coefficient of Voc	β (Voc) -0.25%/°C
Temperature Coefficient of Isc	α (Isc) 0.046%/°C
Solar Cells	Monocrystalline 182× 91mm
No. of Cells	108 (6×18)
Dimensions	1722mm×1134mm×30mm
Weight	21.0 (±0.5) kg
Glass	High light transmittance coated tempered glass
Frame	Anodized aluminum alloy
Junction Box/Connectors	IP68/PV-HT005-01(HT-SAAE products)
Cable	4mm² (IEC) length: (+) 1200mm, (-) 1200mm
Fire Rating	Class C
Packaging Configuration	36 pcs/box: 936 pcs/ 40' HQ Container



IV Curves



Warranty



12/30-year product warranty*

30-year 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

*Copyright©2023V1 Specifications are subject to change without further notification *Only available in Australia