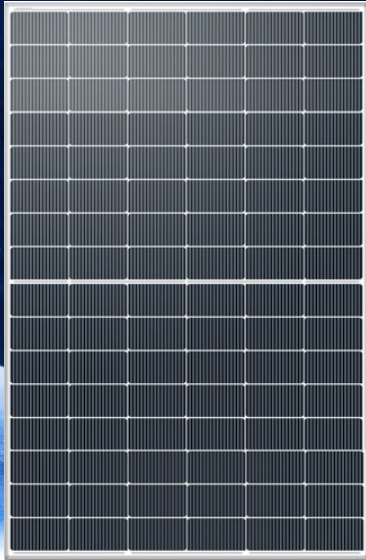


# HT48-18X(N)

**SINGLE GLASS TOPCON PV MODULE**  
**440-460W**

**DESIGNED FOR AUSTRALIA**  
**MODULE EFFICIENCY UP TO 23.0%**



## FEATURE



Half-cut cell technology reduces internal power loss, improves power production and provides excellent heat dissipation to avoid hot spots.



**30 Year** product warranty for rooftop installations  
**15 Year** for ground mounted.



**30 Year** power output warranty.

## EL Tested

High quality control using double EL tests to ensure reliability and avoid microcracks.



Certified to withstand extreme mechanical load 5400 Pa positive and 2400 Pa negative. 25mm hailstone at the speed of 23m/s.

## TOPCon

Optimised Multi-Busbar (MBB) for maximum light absorption, lower resistance and improved current collection for enhanced reliability.



Designed for high voltage systems of up to 1500 VDC, increases string length and saves on BoS costs.



All modules sorted and packaged by amperage reducing mismatch losses by average of 2% to enhance system output.

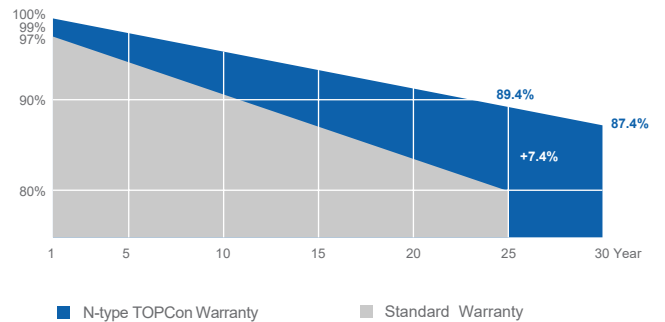
## AntiPID

Excellent Anti-PID performance resulting in low power degradation and a high energy yield.

## Low Degradation Rate

0.4% annual degradation rate over 30 year power output.

## WARRANTY



## COMPREHENSIVE AND FIRST-RATE CERTIFICATION SYSTEM

IEC 61215, IEC 61730 Latest Standard  
ISO 9001, ISO 14001, ISO 45001 and SA8000.  
Strict quality control of the highest international standards.



**MULTIWAY+**  
BETTER CHOICE FOR HIGHER EFFICIENCY!

**HT48-18X(N)**  
440W / 445W / 450W / 455W / 460W

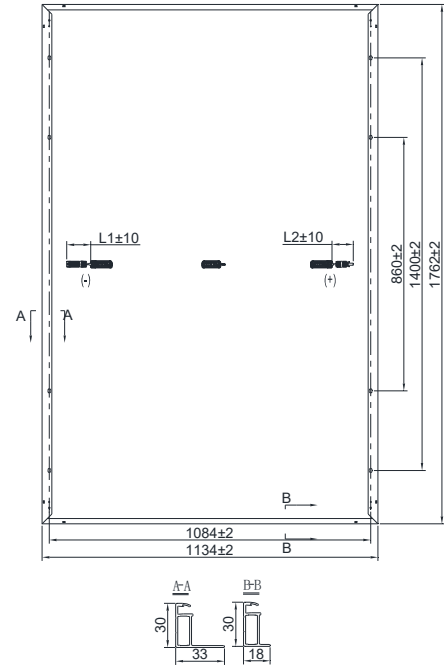
### ELECTRICAL CHARACTERISTICS (STC)

Module Type	HT48-18X(N)				
Maximum Power (Pmax)	440W	445W	450W	455W	460W
Open Circuit Voltage(Voc)	35.0V	35.2V	35.4V	35.6V	35.7V
Short Circuit Current(Isc)	16.05A	16.10A	16.15A	16.20A	16.27A
Maximum Power Voltage(Vmp)	29.1V	29.3V	29.5V	29.7V	29.8V
Maximum Power Current(Imp)	15.13A	15.20A	15.27A	15.34A	15.44A
Module Efficiency	22.0%	22.3%	22.5%	22.8%	23.0%
Power/Voc/Isc Measurement Tolerances	±3%/±5%/±5%				
Maximum System Voltage	1500V DC (IEC)				
Maximum Series Fuse Rating	30A				
Operating Temperature	-40°C to +85°C				
STC: AM 1.5, Irradiance 1000W/m <sup>2</sup> , module temperature 25°C					

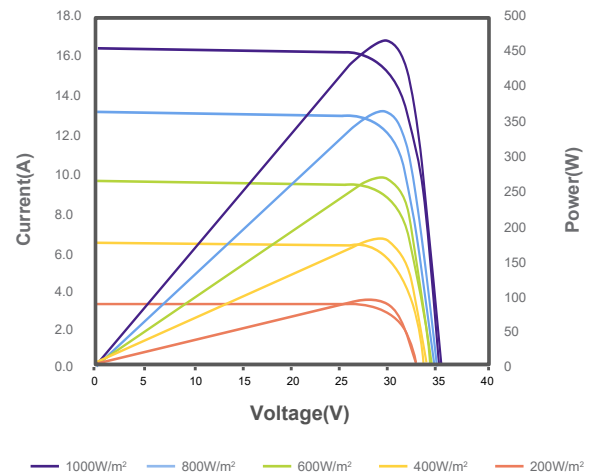
### ELECTRICAL CHARACTERISTICS (NMOT)

Module Type	HT48-18X(N)				
Maximum Power(Pmax)	335W	338W	342W	346W	350W
Open Circuit Voltage(Voc)	33.6V	33.8V	34.0V	34.2V	34.3V
Short Circuit Current(Isc)	12.93A	12.97A	13.02A	13.06A	13.11A
Maximum Power Voltage(Vmp)	27.9V	28.1V	28.3V	28.5V	28.6V
Maximum Power Current(Imp)	12.01A	12.03A	12.08A	12.14A	12.24A
NMOT: Irradiance 800W/m <sup>2</sup> , 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				
No. of Cells	96 (6x16)				
Dimensions	1762mm x 1134mm x 30mm				
Weight	21.0 kg				
Glass	High transmittance coated tempered glass				
Frame	Anodised aluminum alloy				
Junction Box/Connectors	IP68 / PV-HT005-01 HT-SAAE product / Stäubli MC4				
Cable	4mm <sup>2</sup> (IEC) length: (+) 1200mm, (-) 1200mm				
Fire Rating	Class C				
Packaging Configuration	36pcs/box: 936pcs/ 40' HQ Container				

### DIMENSIONS OF PV MODULE (MM)



### IV CURVES



**Shanghai Aerospace Automobile Electromechanical Co., Ltd.**  
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Shanghai, China 201108

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Website: [www.ht-saae.com.au](http://www.ht-saae.com.au)

**Made in China**

Module recycling should be carried out by professionals.

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Only available in Australia