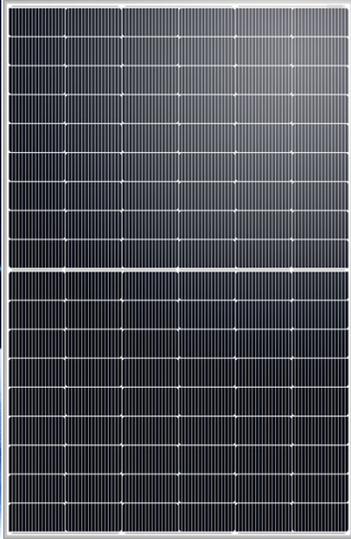


# HT54-18X(ND)-F

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

**DESIGNED FOR AUSTRALIA**  
**MODULE EFFICIENCY UP TO 23%**



## 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. 45mm hailstone at the speed of 23m/s tested by Dekra.

## 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.

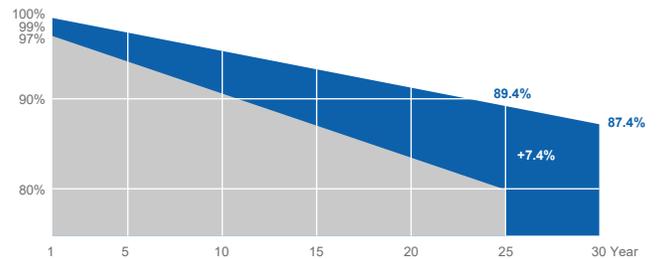
## AntiPID

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



■ N-type TOPCon Warranty    ■ Standard 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!

**HT54-18X(ND)-F**  
440W / 445W / 450W / 455W / 460W

### ELECTRICAL CHARACTERISTICS (STC)

| Module Type  | HT54-18X(ND)-F |        |        |        |        |
|--|----------------|--------|--------|--------|--------|
| Maximum Power (Pmax)   | 440W           | 445W   | 450W   | 455W   | 460W   |
| Open Circuit Voltage(Voc)  | 38.6V          | 38.7V  | 38.8V  | 39.1V  | 39.4V  |
| Short Circuit Current(Isc)   | 14.39A         | 14.47A | 14.55A | 14.61A | 14.67A |
| Maximum Power Voltage(Vmp)   | 32.2V          | 32.4V  | 32.5V  | 32.7V  | 32.9V  |
| Maximum Power Current(Imp)   | 13.68A         | 13.76A | 13.85A | 13.92A | 13.99A |
| Module Efficiency  | 22.0%          | 22.3%  | 22.5%  | 22.8%  | 23.0%  |
| Power/Voc/Isc Measurement Tolerance                                    | ±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  | HT54-18X(ND)-F |        |        |        |        |
|--|----------------|--------|--------|--------|--------|
| Maximum Power(Pmax)  | 335W           | 338W   | 342W   | 346W   | 350W   |
| Open Circuit Voltage(Voc)  | 37.1V          | 37.2V  | 37.2V  | 37.5V  | 37.8V  |
| Short Circuit Current(Isc)   | 11.60A         | 11.66A | 11.73A | 11.77A | 11.82A |
| Maximum Power Voltage(Vmp)   | 30.9V          | 31.1V  | 31.2V  | 31.4V  | 31.6V  |
| Maximum Power Current(Imp)   | 10.84A         | 10.87A | 10.96A | 11.02A | 11.08A |
| NMOT: Irradiance 800W/m <sup>2</sup> , ambient temperature 20°C, wind speed 1m/s |                |        |        |        |        |

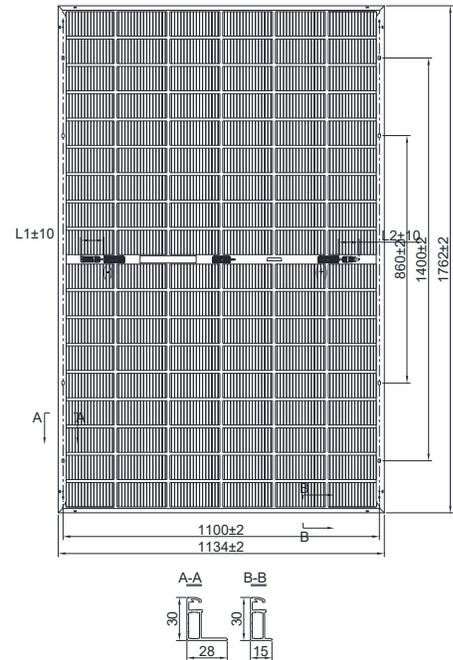
### BIFACIAL NAMEPLATE IRRADIANCE (BNPI)

|                            |        |        |        |        |        |
|----------------------------|--------|--------|--------|--------|--------|
| Maximum Power(Pmax)        | 484W   | 490W   | 495W   | 501W   | 506W   |
| Open Circuit Voltage(Voc)  | 38.6V  | 38.7V  | 38.8V  | 39.1V  | 39.4V  |
| Short Circuit Current(Isc) | 15.83A | 15.92A | 16.01A | 16.07A | 16.14A |
| Maximum Power Voltage(Vmp) | 32.2V  | 32.4V  | 32.5V  | 32.7V  | 32.9V  |
| Maximum Power Current(Imp) | 15.05A | 15.12A | 15.23A | 15.32A | 15.38A |

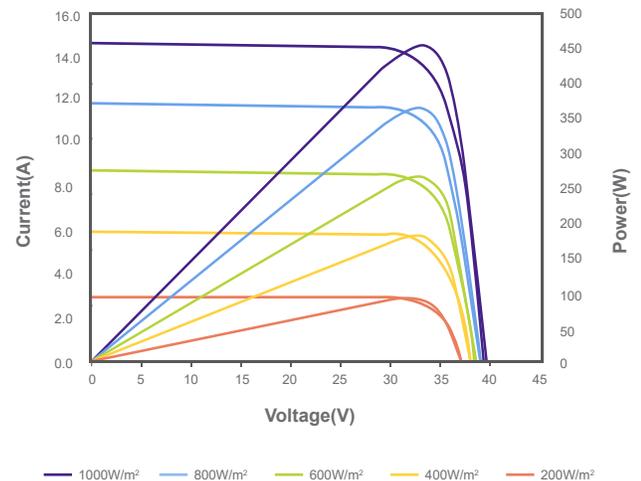
\*BNPI: front 1000W/m<sup>2</sup>, rear 135W/m<sup>2</sup>

|  |  |           |
|--|--|-----------|
| 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                               | 108 (6x18)   |           |
| Dimensions                                 | 1762mm x 1134mm x 30mm   |           |
| Weight                                     | 25.0 kg  |           |
| Glass                                      | High transmittance coated tempered glass/Heat strengthened 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



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**Made in China**

Module recycling should be carried out by professionals.

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Only available in Australia

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