

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**
8000 Pa positive and 4000 Pa negative.
45mm hailstone at the speed of 23m/s tested by Dekra.

TOPCon

Optimised Super Multi-Busbar (SMBB) for maximum light absorption, lower resistance, better low-light response 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.

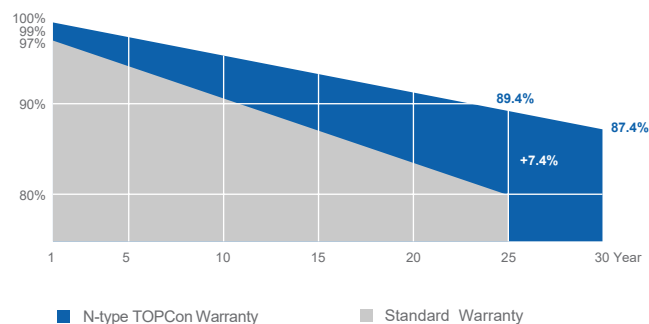
AntiPID

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!

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 Tolreance	±3%/±5%/±5%				
Maximum System Voltage	1500V DC (IEC)				
Maximum Series Fuse Rating	30A				
Operating Temperature	-40℃ to +85℃				
STC: AM 1.5, Irradiance 1000W/m², module temperature 25℃					

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 ² , ambient temperature 20°C, wind speed 1m/s					

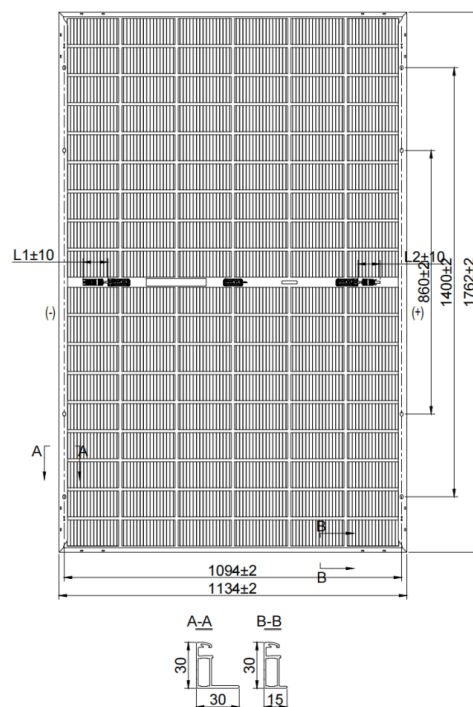
BIFACIAL NAMEPLATE IRRADIANCE (BNPI)

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

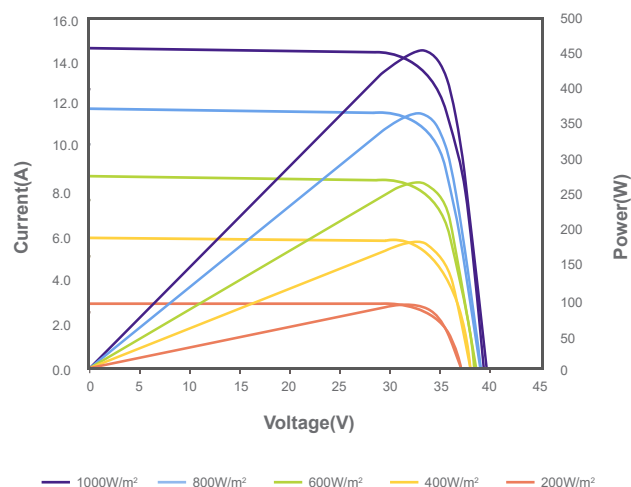
*BNPI: front 1000W/m², rear 135W/m²

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 (Front/Back)	2mm Anti-reflection high transmission coated tempered glass+2mm Heat strengthened glass (option for Anti-Glare front tempered glass)	
Frame	Anodised aluminum alloy	
Junction Box/Connectors	IP68 / PV-HT005-01 HT-SAAE product / Stäubli MC4	
Cable	4mm²(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.
Shanghai Aerospace Innovation and Entrepreneurship Center
No. 3883, Building 1, Yuanjiang Road, Minhang District
Shanghai, China 201108

Australia office
Level 45, 680 George St, Sydney NSW 2000

Website: www.ht-saae.com.au

Made in China

Module recycling should be carried out by professionals.

Copyright@2025V1 Specifications are subject to change without further notification.

Only available in Australia

#DS0889