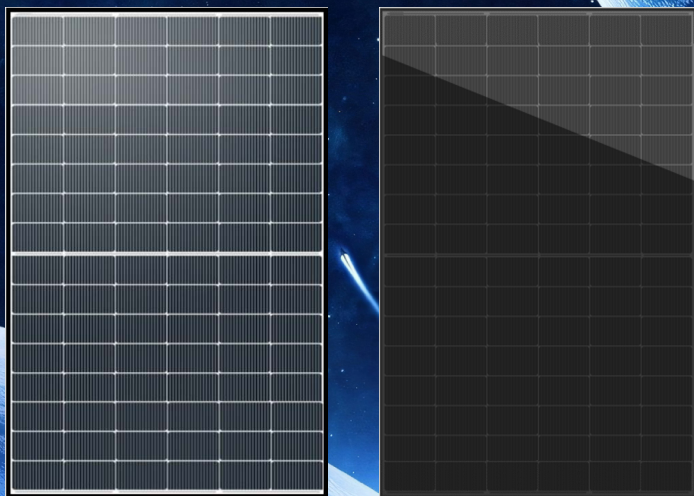




HT48-210R(N)

SINGLE GLASS TOPCON PV MODULE

440-475W STANDARD & PANDA

DESIGNED FOR AUSTRALIA

MODULE EFFICIENCY UP TO 23.8%

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.

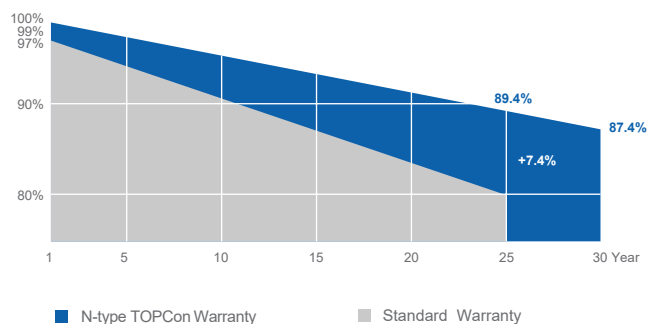
AntiPID

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
SA8000, ISO 9001, ISO 14001 and ISO 45001.

Strict quality control of the highest international standards.



MULTIWAY+
BETTER CHOICE FOR HIGHER EFFICIENCY!

HT48-210R(N)

440W / 445W / 450W / 455W / 460W / 465W / 470W / 475W

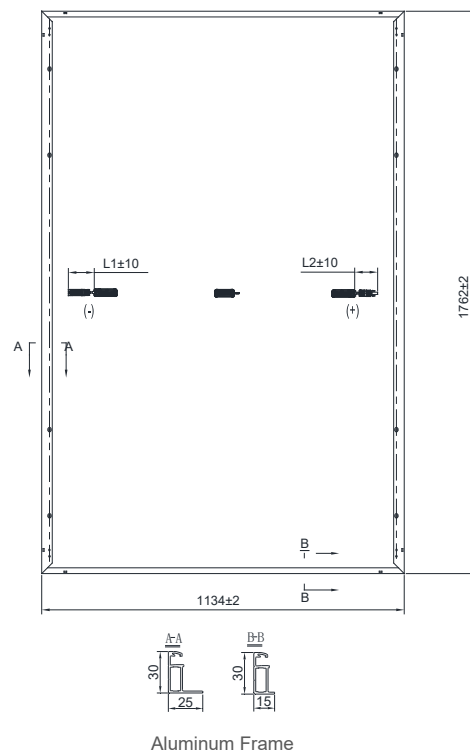
ELECTRICAL CHARACTERISTICS (STC)

Module Type	HT48-210R(N)							
Maximum Power (Pmax)	440W	445W	450W	455W	460W	465W	470W	475W
Open Circuit Voltage(Voc)	35.33V	35.52V	35.71V	35.90V	36.09V	36.28V	36.47V	36.66V
Short Circuit Current(Isc)	16.19A	16.22A	16.25A	16.28A	16.31A	16.34A	16.37A	16.40A
Maximum Power Voltage(Vmp)	28.86V	29.11V	29.36V	29.61V	29.86V	30.11V	30.36V	30.61V
Maximum Power Current(Imp)	15.25A	15.29A	15.33A	15.37A	15.41A	15.45A	15.49A	15.53A
Module Efficiency	22.0%	22.3%	22.5%	22.8%	23.0%	23.3%	23.5%	23.8%
Power/Voc/Isc Measurement Tolerances	±3%/±5%/±5%							
Maximum System Voltage	1500V DC (IEC)							
Maximum Series Fuse Rating	30A							
Operating Temperature	-40-70°C, Module[T98] max :70°C							
STC: AM 1.5, Irradiance 1000W/m², module temperature 25°C								

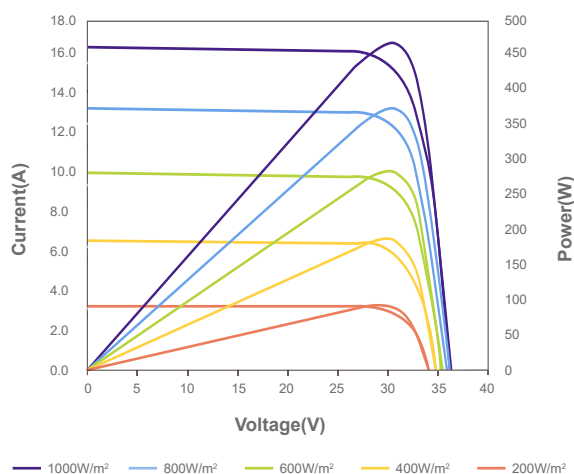
ELECTRICAL CHARACTERISTICS (NMOT)

Module Type	HT48-210R(N)								
Maximum Power(Pmax)	334W	337W	341W	345W	349W	353W	356W	360W	
Open Circuit Voltage(Voc)	33.74V	33.92V	34.10V	34.28V	34.47V	34.65V	34.83V	35.01V	
Short Circuit Current(Isc)	13.06A	13.08A	13.11A	13.13A	13.16A	13.18A	13.20A	13.23A	
Maximum Power Voltage(Vmp)	27.56V	27.80V	28.04V	28.28V	28.52V	28.76V	28.99V	29.23V	
Maximum Power Current(Imp)	12.12A	12.12A	12.16A	12.20A	12.24A	12.27A	12.28A	12.32A	
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)			-0.29%/°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				2mm Anti-Reflection Coating Heat Strengthened Glass					
Frame				Anodised Aluminium Alloy: contains 30% recycled aluminium					
Junction Box/Connectors				IP68 / Stäubli MC4					
Cable				4mm²(IEC) length: (+) 1200mm, (-) 1200mm or customised					
Fire Class Rating				Class C					
Packaging Configuration				37 pcs/box: 962 pcs/ 40' HQ Container					

DIMENSIONS OF PV MODULE (MM)



IV CURVES



Shanghai Aerospace Automobile Electromechanical Co., Ltd.
(HT-SAAE)

Factory
Lianyungang Shenzhou New Energy Co., Ltd. (HT-Solar)

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.

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Only available in Australia