HT-SOLAR

Delivering Solar Power since 1960



HT72-18X(ND)-F

DOUBLE GLASS BIFACIAL TOPCON PV MODULE

585-605W

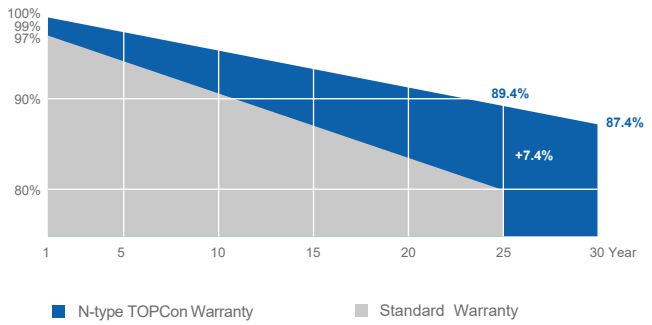
DESIGNED FOR AUSTRALIA

MODULE EFFICIENCY UP TO 23.4%

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 30m/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.
1500V	Designed for high voltage systems of up to 1500 VDC, increases string length and saves on BoS costs.
2%	All modules sorted and packaged by amperage reducing mismatch losses by average of 2% to enhance system output.
AntiPID	288hrs **enhanced PID test (IEC TS 62804)**, a performance with minimal power degradation and higher energy yield.
IEC Tests	IEC 61701 Salt Mist Corrosion Resistance IEC 62716 Ammonia Corrosion Resistance IEC 60068 Dust Resistance
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.

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#DS1271

MULTIWAY+

BETTER CHOICE FOR HIGHER EFFICIENCY!

HT72-18X(ND)-F

585W /590W /595W /600W /605W

ELECTRICAL CHARACTERISTICS (STC)

Module Type	HT72-18X(ND)-F				
Maximum Power (Pmax)	585W	590W	595W	600W	605W
Open Circuit Voltage(Voc)	52.44V	52.63V	52.82V	53.01V	53.20V
Short Circuit Current(Isc)	14.22A	14.26A	14.30A	14.34A	14.38A
Maximum Power Voltage(Vmp)	43.77V	43.94V	44.11V	44.28V	44.45V
Maximum Power Current(Imp)	13.37A	13.43A	13.49A	13.55A	13.61A
Module Efficiency	22.6%	22.8%	23.0%	23.2%	23.4%
Power/Voc/Isc Measurement Tolerances	±3%/±5%/±5%				
Power Selection	0~+3%				
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℃

ELECTRICAL CHARACTERISTICS (NMOT)

Module Type	HT72-18X(ND)-F				
Maximum Power(Pmax)	444W	447W	451W	455W	459W
Open Circuit Voltage(Voc)	50.08V	50.26V	50.44V	50.62V	50.81V
Short Circuit Current(Isc)	11.47A	11.50A	11.53A	11.57A	11.60A
Maximum Power Voltage(Vmp)	41.80V	41.96V	42.13V	42.29V	42.45V
Maximum Power Current(Imp)	10.62A	10.65A	10.70A	10.76A	10.81A

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

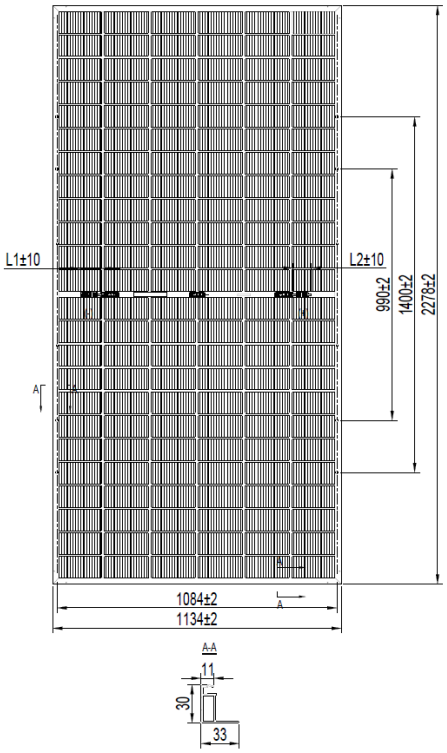
ELECTRICAL RATINGS AT IRRADIANCE LEVEL AT BNPI

Rated Voc at BNPI [V] / tolerance ±5%	52.42	52.61	52.8	52.99	53.18
Rated Isc at BNPI [A] / tolerance ±5%	15.76	15.8	15.84	15.99	15.93
Rated Vmp at BNPI [V]	43.79	43.96	44.13	44.3	44.47
Rated Imp at BNPI [A]	14.81	14.88	14.95	15.01	15.08
Rated Pmax at BNPI [W] / tolerance ±3%	648.7	615.1	620.9	626.7	670.6

BIFACIALITY COEFFICIENT WITH TOLERANCE (BNPI)

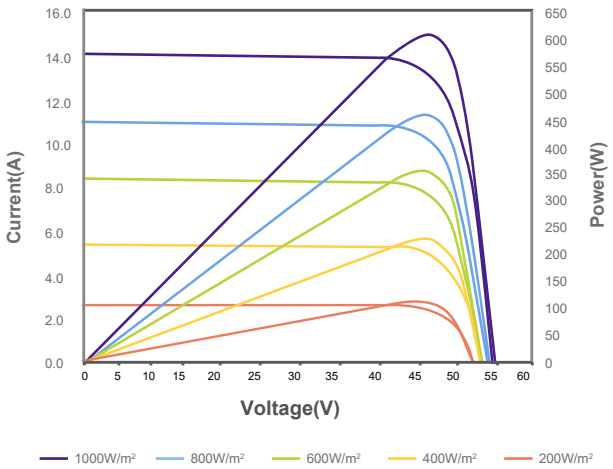
φPmax	80%±5%	
φVoc	98%±5%	
	80%±5%	
Nominal Module Operating Temperature(NMOT)		43 ± 2°C
Temperature Coefficient of Pmax	γ(PM)	-0.29%/℃
Temperature Coefficient of Voc	β(Voc)	-0.25%/℃
Temperature Coefficient of Isc	α(Isc)	0.046%/℃
Solar Cells	Monocrystalline	
No.of Cells	144 (6x24)	
Dimensions	2278mm x 1134mm x 30mm	
Weight	32.5kg	
Glass	Anti-Reflection Coating Heat Strengthened Glass	
Frame	Polymer Composite Frame: contains 30% recycled materials	
Junction Box/Connectors	IP68 / Stäubli MC4	
Cable	4mm²(IEC) length: (+) 200mm, (-) 300mm or customised	
Fire Class Rating	Class C	
Packaging Configuration	36 pcs/box: 720pcs/ 40' HQ Container	

DIMENSIONS OF PV MODULE (MM)



Composite Frame

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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