

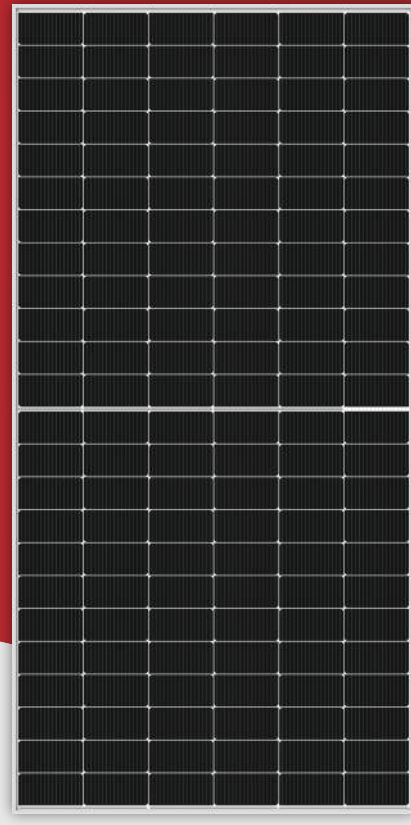


# SUNOVA SOLAR

Pv Tech|Expert.

# Thor 5X 560-580W

N-type High Efficiency Half-Cell Mono Module



30 years lifespan brings 10-30% additional power generation comparing with conventional P-type module



N-type solar cell has no LID naturally which can increase power generation



Excellent low irradiance performance.



Better light trapping and current collection to improve module power output and reliability.



Industry leading lowest thermal co-efficient of power.



Optimized electrical design and lower operating current for reduced hot spot loss and better temperature coefficient.

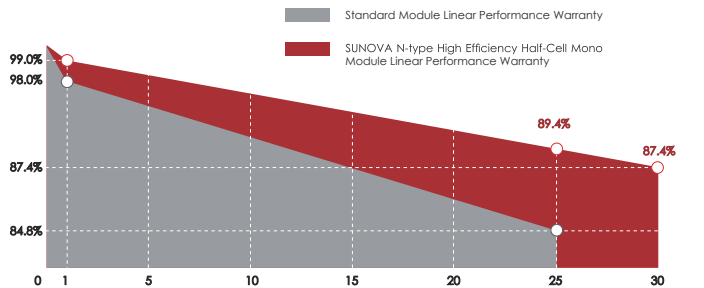


Certified to withstand: wind load (2400 Pa) and snow load (5400 Pa).



100% triple EL test enabling remarkable reduction of hidden crack rate of modules

## LINEAR PERFORMANCE WARRANTY



**15** years

Product quality & process guarantee

**30** years

Linear power guarantee

**0.40** %

Annual Degradation

## COMPREHENSIVE CERTIFICATES



ISO 9001: Quality Management System

ISO 14001: Environmental Management System Standard

ISO 45001: International Occupational Health and Safety Assessment System Standard

SA 8000: 2014 Social Accountability Management System

\* Different markets have different certification requirements. Also, the products are under rapid innovation. Please confirm the certification status with regional sales representatives.

## PERFORMANCE INSURANCE



\* Optional performance warranty insurance. Please contact our local sales staff for more information.

MADE IN CHINA / VIETNAM

www.sunova-solar.com

**ELECTRIC CHARACTERISTICS**

Model of modules	SS-560-72MDH(T)		SS-565-72MDH(T)		SS-570-72MDH(T)		SS-575-72MDH(T)		SS-580-72MDH(T)	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum power — P <sub>mp</sub> (W)	560	417	565	421	570	425	575	428	580	432
Open-circuit voltage — V <sub>oc</sub> (V)	51.30	47.30	51.45	47.44	51.60	47.64	51.75	48.05	51.90	48.32
Short-circuit current — I <sub>sc</sub> (A)	13.41	11.25	13.46	11.30	13.51	11.32	13.56	11.34	13.61	11.36
Maximum power voltage — V <sub>mp</sub> (V)	43.97	39.82	44.10	40.09	44.23	40.35	44.35	40.61	44.48	40.74
Maximum power current — I <sub>mp</sub> (A)	12.74	10.48	12.81	10.50	12.89	10.52	12.96	10.55	13.04	10.60
Module efficiency — η <sub>m</sub> (%)	21.7%		21.9%		22.1%		22.3%		22.5%	
Power tolerance (W)					(0,+5)					
Tolerance of rated P <sub>mp</sub> (%)					±3					
Maximum system voltage (V)					1500					
Maximum rated fuse current (A)					25					
Current operating temperature (°C)					-40~+85 °C					

**STC** (Standard Testing Conditions): Irradiance 1000W/m<sup>2</sup>, Cell Temperature 25 °C, Spectra at AM1.5

**NOCT** (Nominal Operating Cell Temperature): Irradiance 800W/m<sup>2</sup>, Ambient Temperature 20°C, Spectra at AM1.5, Wind at 1m/s

**STRUCTURAL CHARACTERISTICS**

Module dimensions (L*W*H)	2278 x 1134 x 30 mm
Weight	27.6 kg
Number of cells	144 cells
Cell	N-type Monocrystalline 182x91 mm
Glass	Tempered, 3.2 mm AR, High transmittance, Low iron
Frame	Anodized aluminum alloy
Junction box	IP68, 3 bypass diodes
Output wire	4.0 mm <sup>2</sup> , wire length: 300mm/1200mm/customized
Connector	PV-KST4-EVO 2/xy_UR,PV-KBT4-EVO 2/xy_UR
Mechanical load	Snow load: 5400 Pa / Wind load: 2400 Pa

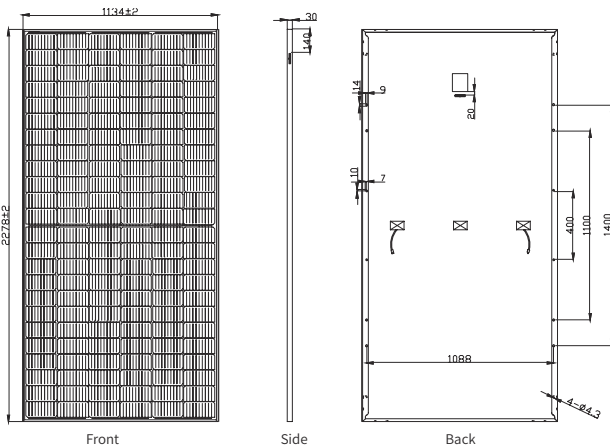
**TEMPERATURE RATINGS**

Temperature coefficient (P <sub>max</sub> )	-0.32%/°C
Temperature coefficient (V <sub>oc</sub> )	-0.26%/°C
Temperature coefficient (I <sub>sc</sub> )	+0.046 %/°C
Nominal operating cell temperature	43±2 °C
Fire safety class	C

**PACKAGING CONFIGURATION**

Container	40HQ
Quantity/pallet	36
Pallets/container	20
Quantity/container	720

**MODULE DIMENSIONS (MM)**



\* The tolerance is ±1 mm  
Length shown in mm

