



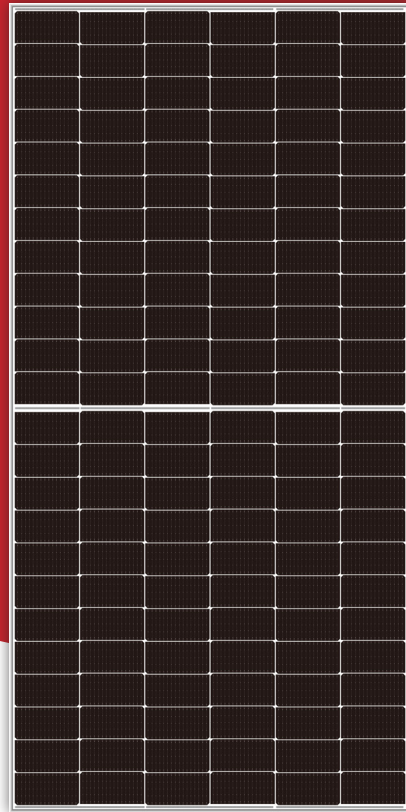
# SUNOVA SOLAR

Leading one-stop PV Supplier

## thor 5x

# 555-575W

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.



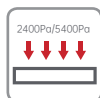
Better light trapping and current collection to improve module power output and reliability.



Industry leading lowest thermal co-efficient of power.



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

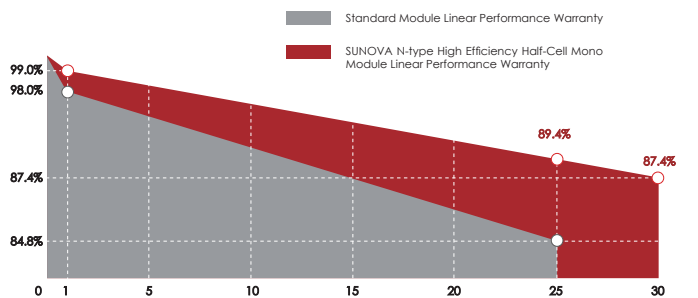


Certified to withstand: wind load (2400 Pa) and snow load (5400 Pa).



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



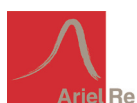
ISO 9001: Quality Management System

ISO 14001: Environmental Management System Standard

ISO 45001: International Occupational Health and Safety Assessment System Standard

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

## PERFORMANCE INSURANCE



**中国平安**

PING AN P & C INSURANCE CO CN SZX

## ELECTRIC CHARACTERISTICS

Model of modules	SS-555-72MDH(T)		SS-560-72MDH(T)		SS-565-72MDH(T)		SS-570-72MDH(T)		SS-575-72MDH(T)	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum power — $P_{mp}$ (W)	555	421	560	424	565	428	570	432	575	436
Open-circuit voltage — $V_{oc}$ (V)	50.4	48.2	50.6	48.4	50.8	48.6	51.0	48.7	51.2	48.9
Short-circuit current — $I_{sc}$ (A)	13.93	11.23	13.99	11.28	14.05	11.33	14.11	11.38	14.17	11.42
Maximum power voltage — $V_{mp}$ (V)	42.2	39.6	42.4	39.8	42.6	40.0	42.8	40.2	43.0	40.4
Maximum power current — $I_{mp}$ (A)	13.16	10.61	13.21	10.65	13.27	10.70	13.32	10.74	13.38	10.79
Module efficiency — $\eta_m$ (%)	21.5%		21.7%		21.9%		22.1%		22.3%	
Power tolerance (W)	(0,+5)									
Maximum system voltage (V)	1500									
Maximum rated fuse current (A)	25									
Current operating temperature (°C)	-40~+85 °C									

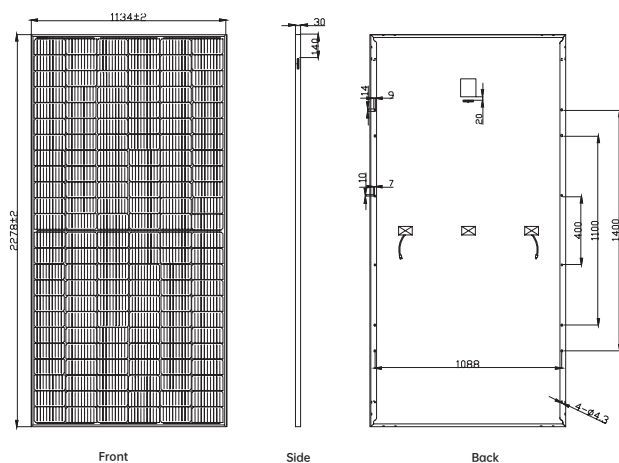
**STC** (Standard Testing Conditions): Irradiance 1000W/m<sup>2</sup>, Cell Temperature 25 °C, Spectra at AM1.5

**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 (89.69 x 44.65 x 1.18 inch)
Weight	27.6 kg (60.85 lbs)
Number of cells	144 cells
Cell	N-type Monocrystalline 182x91 mm (7.17 x 3.58 inch)
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/customized
Connector	MC4 Compatible
Mechanical load	Snow load: 5400 Pa / Wind load: 2400 Pa

## MODULE DIMENSIONS (MM)



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

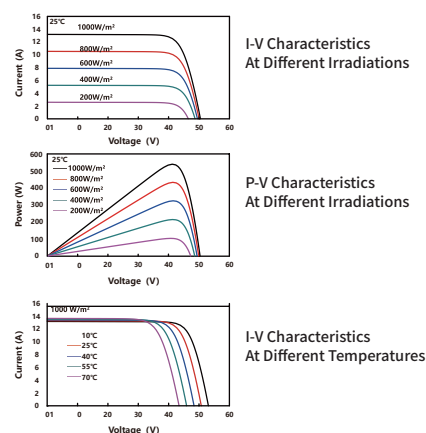
## TEMPERFORMANCE RATINGS

Temperature coefficient ( $P_{max}$ )	-0.310%/°C
Temperature coefficient ( $V_{oc}$ )	-0.260%/°C
Temperature coefficient ( $I_{sc}$ )	+0.046%/°C
Nominal operating cell temperature	42±2 °C

## PACKAGING CONFIGURATION

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

Characteristic Curves(550W)



Web: [www.sunova-solar.com](http://www.sunova-solar.com)

E-mail: [info@sunova-solar.com](mailto:info@sunova-solar.com)

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