



Tangra[™]M 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

PERFORMANCE INSURANCE

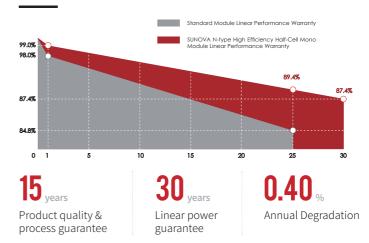




* Optional performance warranty insurance. Please contact our local sales staff for more information.

		يتلاتي	يتتتبي
التسير			

LINEAR PERFORMANCE WARRANTY



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.



ELECTRIC CHARACTERISTICS

Model of modules	SS-560-7	2MDH(T)	SS-565-7	2MDH(T)	SS-570-7	2MDH(T)	SS-575-7	2MDH(T)	SS-580-7	2MDH(T)
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum power — P _{mp} (W)	560	417	565	421	570	425	575	428	580	432
Open-circuit voltage — V_{oc} (V)	51.30	47.30	51.45	47.44	51.60	47.64	51.75	48.05	51.90	48.32
Short-circuit current $- I_{sc}(A)$	13.41	11.25	13.46	11.30	13.51	11.32	13.56	11.34	13.61	11.36
Maximum power voltage $- V_{mp}(V)$	43.97	39.82	44.10	40.09	44.23	40.35	44.35	40.61	44.48	40.74
Maximum power current — I_{mp} (A)	12.74	10.48	12.81	10.50	12.89	10.52	12.96	10.55	13.04	10.60
Module efficiency $-\eta_m$ (%)	21.7 21.9		22.1		22.3		22.5			
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/m², Cell Temperature 25 °C , Spectra at AM1.5

NOCT (Nominal Operating Cell Temperature): Irradiance 800W/m², 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 ² , wire length: 300mm/1200mm/customized		
Connector	MC4 Compatible		
Mechanical load	Snow load: 5400 Pa / Wind load: 2400 Pa		

TEMPERATURE RATINGS

Temperature coefficient (P _{max})	-0.30 %/°C
Temperature coefficient (V_{oc})	-0.26 %/°C
Temperature coefficient (I_{sc})	+0.046 %/°C
Nominal operating cell temperature	43±2℃

PACKAGING CONFIGURATION

600

500

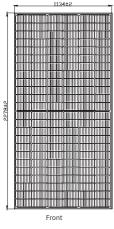
400

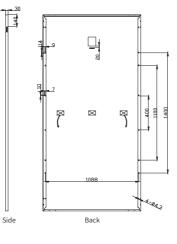
300 Power

Ś

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

MODULE DIMENSIONS (MM)





* The unma rance is ±1 mm Length shown in mm



Web: www.sunova-solar.com

E-mail: info@sunova-solar.com

20 25 30

 $Voltage \; (V) \\$

800 -

10 15

1000 -

35 40 45

-600 **---**400 **---**200

50

Current-Voltage & Power-Voltage Curves (580W)

Current (A)

The technical parameters contained in this datasheet may deviate slightly. Sunova Solar does not guarantee that they are completely accurate. Varying optional data could be for different regions or prices. Please contact commercial people for confirmation. Due to continuous innovation, research and development and product improvement, Sunova Solar reserves the right to adjust the information in this datasheet at any time without prior notice. The customer should obtain the latest version of datasheet when signing the contract and make it an integral part of the binding contract signed by both parties. The Chinese (or other language) translation files of this datasheet are for reference only. If there is any inconsistency between the English version and the Chinese version (or other language versions), the English version shall prevail.

25 50 75 100

Cell Temperature (°C)

Temperature Dependence of Isc,Voc,Pmax

Isc

180

160

120

80

60 40

20

-50 -25 0

8 140

, Pmax

0 0 0 100

Normalized Isc,