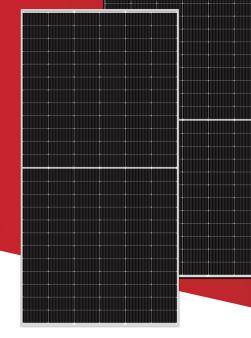




# **Tangra**<sup>™</sup>**M** 565-585W

N-type High Efficiency Half-Cell Mono Module





30-year lifespan delivers 10-30% more power compared with conventional P-type modules



The natural lack of LID in the N-type solar cell 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 coefficient



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



Certified to withstand 2400 Pa of wind load and 5400 Pa of snow load



100% triple EL test, which greatly reduces the hidden cracks rate

### PERFORMANCE INSURANCE





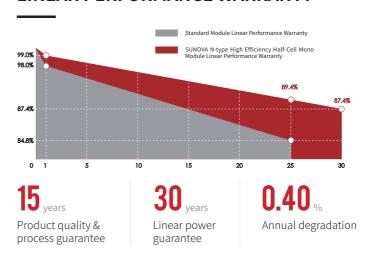






<sup>\*</sup> Optional performance warranty insurance. Please contact our local sales representatives for more information.

# 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

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

#### **ELECTRICAL CHARACTERISTICS**



Model of modules	SS-565-72MDH(T)		SS-570-72MDH(T)		SS-575-72MDH(T)		SS-580-72MDH(T)		SS-585-72MDH(T)	
	STC	NOCT								
Maximum power — P <sub>mp</sub> (W)	565	421	570	425	575	428	580	432	585	436
Open-circuit voltage $- V_{oc}$ (V)	51.45	48.57	51.60	48.71	51.75	48.85	51.90	48.99	52.09	49.17
Short-circuit current $-I_{sc}(A)$	13.46	10.87	13.51	10.92	13.56	10.96	13.61	11.00	13.68	11.05
$\label{eq:maximum power voltage - V_mp (V)} \text{Maximum power voltage} - \text{V}_{\text{mp}} \text{(V)}$	44.10	41.28	44.23	41.41	44.35	41.52	44.48	41.64	44.61	41.76
${\rm Maximum\ power\ current} - {\rm I_{mp}\ (A)}$	12.81	10.19	12.89	10.26	12.96	10.31	13.04	10.38	13.12	10.44
Module efficiency $-\eta_m$ (%)	21.87		22.07		22.26		22.45		22.65	
Power tolerance (W)	(0,+5)									
Maximum system voltage (V)	1500									
Maximum rated fuse current (A)	25									
Current operating temperature (°C)	-40~+85 °C									

 $\begin{array}{l} \textbf{STC} & \textbf{(Standard Testing Conditions): Irradiance 1000W/m}^2, \textbf{Cell Temperature 25 °C}, \textbf{Spectra at AM1.5} \\ \textbf{NOCT} & \textbf{(Nominal Operating Cell Temperature): Irradiance 800W/m}^2, \textbf{Ambient Temperature 20°C}, \textbf{Spectra at AM1.5}, \textbf{Wind at 1m/s} \\ \textbf{MOCT} & \textbf{(Nominal Operating Cell Temperature): Irradiance 800W/m}^2, \textbf{Ambient Temperature 20°C}, \textbf{Spectra at AM1.5}, \textbf{Wind at 1m/s} \\ \textbf{MOCT} & \textbf{(Nominal Operating Cell Temperature): Irradiance 800W/m}^2, \textbf{(Nominal Operating Cell Temperature): Irradi$ 

#### STRUCTURAL CHARACTERISTICS

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				
Glass	Tempered, 3.2 mm AR, High transmittance, Low iron				
Frame	Anodized aluminum alloy (Silver/Black)				
Junction box	IP68, 3 bypass diodes				
Output wire	4.0 mm², wire length: 300mm/1200mm/customized				
Connector	MC4 Compatible				
Mechanical load	Snow load: 5400 Pa / Wind load: 2400 Pa				

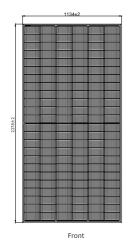
#### **TEMPERATURE RATINGS**

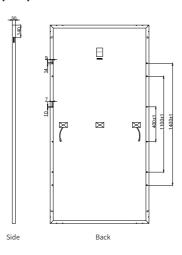
Temperature coefficient ( $P_{max}$ )	-0.30 %/°C
Temperature coefficient (V <sub>oc</sub> )	-0.28 %/°C
Temperature coefficient $(I_{sc})$	+0.04 %/°C
Nominal operating cell temperature	43±2°C

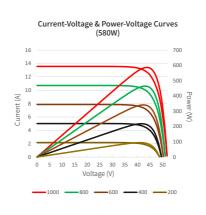
#### **PACKAGING CONFIGURATION**

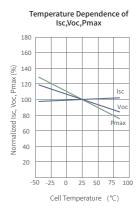
Container	40HQ
Quantity/pallet	36
Pallets/container	20
Quantity/container	720

#### **MODULE DIMENSIONS (MM)**









 $<sup>^\</sup>star$  The unmarked tolerance is  $\pm 1\,\mathrm{mm}$  Length shown in mm





#### Web: www.sunova-solar.com

E-mail: info@sunova-solar.com

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