

SUNOVA SOLAR



Tangra[™]L HD 600-620W

N-type High Density 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

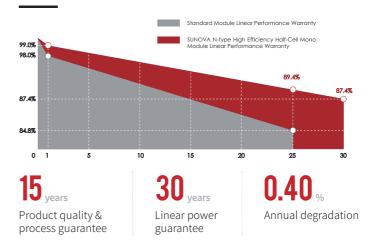
PERFORMANCE INSURANCE



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

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LINEAR PERFORMANCE WARRANTY



COMPREHENSIVE CERTIFICATES



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- 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.

ELECTRICAL CHARACTERISTICS

Model of modules	SS-600-72N	1DH-G10(T)	SS-605-72N	1DH-G10(T)	SS-610-72N	/DH-G10(T)	SS-615-72N	MDH-G10(T)	SS-620-72N	MDH-G10(T)
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum power — $P_{mp}(W)$	600	452	605	456	610	460	615	463	620	467
Open-circuit voltage — V_{oc} (V)	52.38	49.44	52.51	49.57	52.64	49.69	52.77	49.81	52.90	49.93
Short-circuit current $-I_{sc}(A)$	14.47	11.69	14.53	11.74	14.59	11.79	14.65	11.84	14.71	11.88
Maximum power voltage — $V_{mp}(V)$	44.26	41.43	44.40	41.57	44.55	41.70	44.70	41.84	44.84	41.98
Maximum power current — I_{mp} (A)	13.56	10.91	13.63	10.97	13.69	11.02	13.76	11.07	13.83	11.13
Module efficiency $-\eta_m$ (%)	22	22.21 22.40 22.58		22.77		22.95				
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)	2382 x 1134 x 30 mm	
Weight	28.9 kg	
Number of cells	144 cells	
Cell	N-type Monocrystalline	
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/1200/customized	
Connector	MC4 Compatible	
Mechanical load	Snow load: 5400 Pa / Wind load: 2400 Pa	

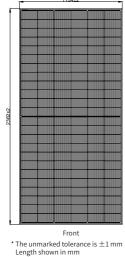
TEMPERATURE RATINGS

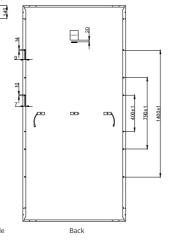
Temperature coefficient (P _{max})	-0.30%/°C
Temperature coefficient (V_{oc})	-0.28 %/°C
Temperature coefficient (I_{sc})	+0.04 %/°C
Nominal operating cell temperature	43±2℃

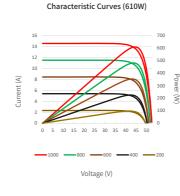
PACKAGING CONFIGURATION

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

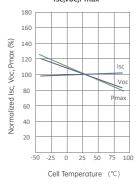
MODULE DIMENSIONS (MM)











Side ≥is ±1 mm



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Make it happen !

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