

Tangra[™]L Pro 595-615W

N-type Bifacial Double Glass Mono Module



Bifacial technology enables additional energy harvesting from rear side (up to 30%)



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





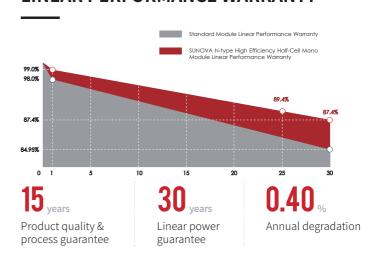






^{*} Optional performance warranty insurance. Please contact our local sales representatives for more information.

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



Model of modules	SS-BG595	-78MDH(T)	SS-BG600	-78MDH(T)	SS-BG605	-78MDH(T)	SS-BG610	-78MDH(T)	SS-BG615	-78MDH(T)
	STC	NOCT								
$\operatorname{Maximum\ power} - \operatorname{P}_{\operatorname{mp}}(\operatorname{W})$	595	443	600	447	605	451	610	454	615	458
Open-circuit voltage — V _{oc} (V)	54.34	51.29	54.48	51.43	54.62	51.56	54.76	51.69	54.90	51.82
Short-circuit current $-I_{sc}(A)$	13.81	11.16	13.84	11.18	13.89	11.22	13.97	11.29	14.01	11.32
Maximum power voltage $-V_{mp}(V)$	45.53	42.62	45.78	42.86	46.09	43.15	46.24	43.29	46.54	43.57
${\rm Maximum\ power\ current} - {\rm I}_{\rm mp} {\rm (A)}$	13.07	10.40	13.11	10.43	13.13	10.45	13.19	10.50	13.21	10.51
Module efficiency $-\eta_m$ (%)	21	.29	21	.47	21	.65	21	.83	22	.01

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

ELECTRICAL CHARACTERISTICS WITH DIFFERENT POWER BIN (REFERENCE TO 13.5% IRRADIANCE RATIO)

Peak Power (P _{max}) (W)	659	665	671	676	681
Open Circuit Voltage (V _{oc}) (V)	54.34	54.48	54.62	54.76	54.90
Short Circuit Current (I _{sc}) (A)	15.30	15.33	15.39	15.48	15.52
${\rm Maximum\ power\ voltage} - {\rm V_{mp}(V)}$	45.53	45.78	46.09	46.24	46.54
Maximum power current — I _{mp} (A)	14.48	14.53	14.55	14.61	14.64

STRUCTURAL CHARACTERISTICS

Module size (L*W*H)	2464 x 1134 x 35 mm	
Weight	32.8 kg	
Cell	156 cells, N-type Monocrystalline	
Front glass	2.0mm, Anti-Reflection Coating	
Back glass	2.0mm, Heat Strengthened Glass	
Frame	Anodized aluminum alloy (Silver/Black)	
Junction box	IP68, 3 bypass diodes	
Output wire	4.0 mm ²	
Wire length	300mm/1200mm/customized	
Connector	MC4 Compatible	
Packing Specification	31 pcs/Pallet; 496 pcs/40'HQ	

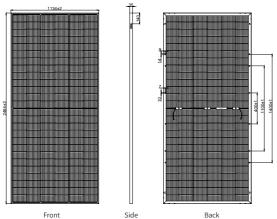
OPERATING PARAMETERS

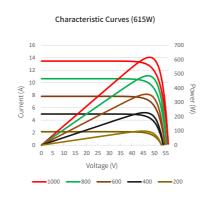
Power tolerance (W)	(0,+5)
Maximum system voltage (V)	1500
Maximum rated fuse current (A)	30
Current operating temperature (°C)	-40~+85 °C
Mechanical load	5400 Pa / 2400 Pa

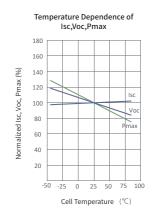
TEMPERATURE RATINGS

	·
Temperature coefficient (P _{max})	-0.30 %/°C
Temperature coefficient (V _{oc})	-0.28 %/°C
	·
Temperature coefficient (I _{sc})	+0.04 %/°C
remperatare esemerent (I _{SC})	0.0170/0
Nominal operating cell temperature	43+2 °C
Nominal operating cell temperature	45±2 C

MODULE DIMENSIONS (MM)







 $^{^{\}star}$ The unmarked tolerance is ± 1 mm Length shown in mm





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