

Tangra[™]L Pro 620-640W

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





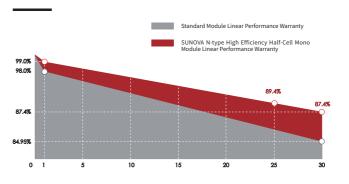






^{*} Optional performance warranty insurance. Please contact our local sales representatives for more information.

LINEAR PERFORMANCE WARRANTY



Product quality & process guarantee

Linear power guarantee

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

2014 Social Accountability Management System SA 8000:

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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-BG620-60MDH-G12(T) SS-BG625-60MDH-G12(T) SS-BG635-60MDH-G12(T) SS-BG640-60MDH-G12(T)

	STC	NOCT								
$\operatorname{Maximum\ power} - \operatorname{P}_{\operatorname{mp}}(\operatorname{W})$	620	462	625	466	630	475	635	478	640	482
Open-circuit voltage $- V_{oc}$ (V)	41.76	39.42	41.88	39.53	42.93	40.52	43.06	40.65	43.20	40.78
Short-circuit current $-I_{sc}(A)$	18.50	14.95	18.56	15.00	18.63	15.05	18.67	15.08	18.70	15.11
${\rm Maximum\ power\ voltage} - {\rm V_{mp}}({\rm V})$	35.45	33.19	35.69	33.41	35.90	33.61	36.06	33.76	36.22	33.90
${\rm Maximum\ power\ current} - {\rm I_{mp}} ({\rm A})$	17.49	13.92	17.51	13.93	17.55	14.12	17.61	14.17	17.67	14.22
Module efficiency $-\eta_m$ (%)	21.	91	22	.08	22	.26	22	.44	22	.61

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)	687	692	698	704	709
Open Circuit Voltage (V _{oc}) (V)	41.76	41.88	42.93	43.06	43.20
Short Circuit Current (I _{sc}) (A)	20.50	20.56	20.64	20.68	20.72
MPP Voltage (V _{mp}) (V)	35.45	35.69	35.90	36.06	36.22
MPP Current (I _{mp}) (A)	19.38	19.40	19.44	19.51	19.58

STRUCTURAL CHARACTERISTICS

Module size (L*W*H)	2172 x 1303 x 35 mm
Weight	35.3 kg
Cell	120 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	31pcs/Pallet; 558 pcs/40'HQ

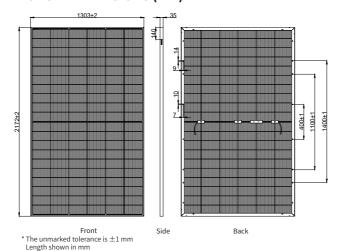
OPERATING PARAMETERS

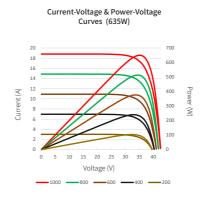
Power tolerance (W)	(0,+5)
Maximum system voltage (V)	1500
Maximum rated fuse current (A)	35
Current operating temperature (°C)	-40~+85 °C
Mechanical load	5400 Pa / 2400 Pa

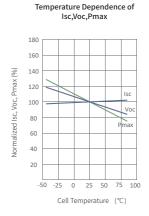
TEMPERATURE RATINGS

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

MODULE DIMENSIONS (MM)







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