



565-585W

N-type high density bifacial double glass mono module

TS-BGT66-G13



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

WARRANTY INSURANCE





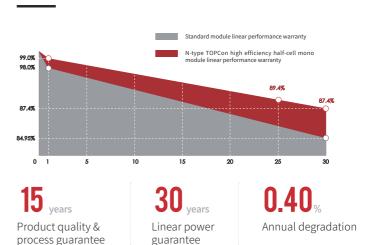






^{*} Optional performance warranty insurance. Please contact our local sales staff for more information.

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

2014 Social Accountability Management System SA8000:



^{*} 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	TS-BGT66(565)-G13		TS-BGT66(570)-G13		TS-BGT66(575)-G13		TS-BGT66(580)-G13		TS-BGT66(585)-G13	
	STC	NOCT								
$\text{Maximum power} - P_{mp}(W) \pm 3\%$	565	426	570	429	575	433	580	437	585	441
Open-circuit voltage $- V_{oc}(V) \pm 3\%$	47.58	44.91	47.78	45.10	47.98	45.29	48.18	45.48	48.38	45.67
Short-circuit current $-I_{sc}(A)\pm3\%$	15.06	12.17	15.11	12.21	15.16	12.25	15.21	12.29	15.26	12.33
${\it Maximum power voltage} - {\it V}_{\it mp}({\it V})$	39.79	37.25	40.00	37.45	40.21	37.64	40.42	37.84	40.63	38.04
${\rm Maximum\ power\ current} - {\rm I_{mp}\ (A)}$	14.20	11.43	14.25	11.47	14.30	11.51	14.35	11.55	14.40	11.59
Module efficiency $-\eta_m$ (%)	21.9		22.1		22.3		22.5		22.6	

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)	626	632	637	643	648
Open Circuit Voltage (V _{oc}) (V)	47.58	47.78	47.98	48.18	48.38
Short Circuit Current (I _{sc}) (A)	16.69	16.74	16.80	16.85	16.91
MPP Voltage (V _{mp}) (V)	39.79	40.00	40.21	40.42	40.63
MPP Current (I _{mp}) (A)	15.73	15.79	15.84	15.90	15.96

Bifaciality Coefficient ϕ Pmax=80% \pm 10%, ϕ Voc=100% \pm 10%, ϕ lsc=80% \pm 10%

STRUCTURAL CHARACTERISTICS

Module size (L*W*H)	2278 x 1134 x 30 mm
Weight	31.1 kg
Cell	132 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 diodes
Output wire	4.0 mm ²
Wire length	300mm/1200mm/customized
Connector	PV-KST4-EVO 2/xy_UR,PV-KBT4-EVO 2/xy_UR
Connector Manufacturer	Staubli Electrical Connectors AG
Packing Specification	36pcs/pallet; 720 pcs/40'HQ

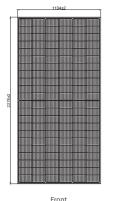
OPERATING PARAMETERS

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⊗

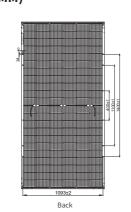
TEMPERATURE PERFORMANCE RATINGS

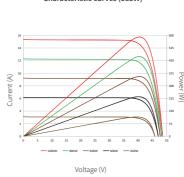
TANGRA temperature coefficient (P _{max})	-0.30 %/°C
Temperature coefficient (V _{oc})	-0.28 %/°C
Temperature coefficient (I_{sc})	+0.04 %/°C
Nominal operating cell temperature	43±2°C
Fire safety class	А

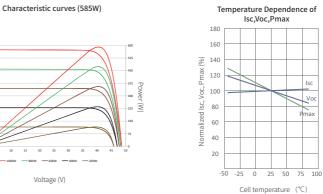
MODULE DIMENSIONS (MM)













Web: www.thornovasolar.com

E-mail: info@thornovasolar.com

^{*} The parameters delineated within this datasheet, both technical and monetary, may exhibit variations contingent upon the region. Thornova Solar provides no warranty as to their absolute accuracy. Owing to our unceasing commitment to innovation, research, development, and product enhancement, Thornova Solar retains the discretion to amend any information encapsulated in this datasheet without any preceding notification. Clients are urged to procure the most recent iteration of this datasheet and incorporate it as an intrinsic component of the legally binding agreement ratified by both parties. The English rendition of this datashest serves purely as a point of reference. Should discrepancies arise between the English text and versions rendered in other languages, the stipulations of the English version shall take precedence.



Scan the QR code to get more information

