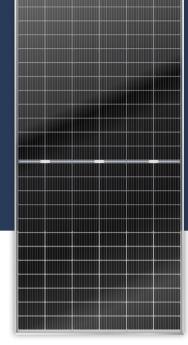




545-560 W

High Efficiency Bifacial Dual Glass PERC Module

TS-BG72





Bifacial technology allows for the harvesting of up to an additional 25% energy from the rear side of the module.



Excellent low irradiance performance.



Enhanced light trapping and optimized current collection contribute to the improvement of both module power output and reliability.



Industry leading lowest thermal coefficient of power.



Design optimized for lower operating current, resulting in minimized hot spot loss and improved temperature coefficient.



Certified to withstand: wind load (2400 Pa) and snow load (5400 Pa).



100% triple EL test enables remarkable reduction of module hidden crack rate.

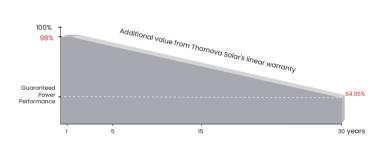
RE INSURANCE





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

LINEAR PERFORMANCE WARRANTY



Product quality & process guarantee

30 years Linear power quarantee

U.40_%
Annual degradation
Over 30 years

COMPREHENSIVE CERTIFICATES





ISO 9001: Quality Management System

ISO 14001: Environmental Management System Standard

ISO 45001: International Occupational Health and Safety Assessment System Standard

* Different markets have different certification requirements. Also, the products are under rapid innovation.

Please confirm the certification status with regional sales representatives.

ELECTRIC CHARACTERISTICS



Model of modules	TS-BG72(540) TS-		TS-BG7	TS-BG72(545) TS-BG		72(550) TS-BG		'2(555)	TS-BG7	TS-BG72(560)	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	
Peak power - P _{mp} (W)	540	402	545	406	550	410	555	414	560	417	
Open circuit voltage - V _{oc} (V)	49.42	46.65	49.51	46.73	49.60	46.82	49.68	46.90	49.76	46.97	
Short circuit current - $I_{sc}(A)$	13.85	11.19	13.94	11.26	14.04	11.34	14.13	11.42	14.25	11.51	
MPP voltage - $V_{mp}(V)$	40.71	38.11	40.76	38.16	40.83	38.22	40.89	38.28	40.95	38.33	
MPP current - I _{mp} (A)	13.27	10.56	13.38	10.65	13.48	10.73	13.58	10.81	13.68	10.89	
Module efficiency - η _m (%)	20.9	90 %	21.1	0 %	21.2	9 %	21.4	8 %	21.6	8 %	

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 _{mp} (W)	591	597	602	608	613
Open circuit voltage - V _{oc} (V)	49.42	49.51	49.60	49.68	49.76
Short circuit current - I _{sc} (A)	15.16	15.26	15.37	15.47	15.60
MPP voltage - $V_{mp}(V)$	40.71	40.76	40.83	40.89	40.95
MPP current - I _{mp} (A)	14.52	14.64	14.75	14.86	14.97
Irradiance ratio (rear/front)			13.5 %		

STRUCTURAL CHARACTERISTICS

Module dimension (L*W*H)	2278 x 1134 x 35 mm (89.69 x 44.65 x 1.38 inch)
Weight	32.3 kg (71.21 lbs)
Number of cells	144 cells
Cell	PERC Monocrystalline 182x91 mm (7.17 x 3.58 inch)
Glass	(F)2.0mm, Anti-Reflection Coating (B)2.0mm, Heat Strengthened Glass
Frame	Anodized aluminum alloy
Junction box	IP68, 3 bypass diodes
Output wire	4.0 mm²
Wire length	300 mm / 1200 mm / Customized length
Connector	MC4 - EVO2
Packing specification	31 pcs/Pallet; 558 pcs/40'HQ

OPERATING PARAMETERS

,	<u> </u>
Bifaciality	70±5%
Current operating temperature (°C)	-40~+85 °C
Maximum rated fuse current (A)	30
Maximum system voltage (V)	1500
Power tolerance (W)	(0,+5)

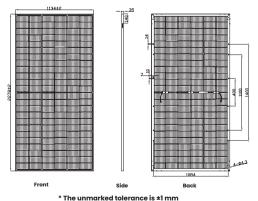
MECHANICAL LOADING

Front side maximum static loading (Pa)	5400
Rear side maximum static loading (Pa)	2400
Hailstone test (mm)	35

TEMPERATURE RATINGS

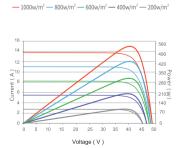
Temperature coefficient (P _{max})	-0.33 %/°C
Temperature coefficient (V _{oc})	-0.26 %/°C
Temperature coefficient (I_{sc})	+0.06 %/°C
Nominal operating cell temperature	45±2 ℃

MODULE DIMENSIONS (MM)

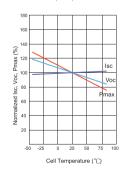


Length shown in mm

Current-Voltage & Power-Voltage Curves (545 W)



Temperature Dependence of Isc,Voc,Pmax



E-mail: info@thornovasolar.com



Scan the QR code to get more information

* 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 datasheet serves purely as a point of reference. Should discrepancies arise between the English text and versions rendered in other languages, the stypulations of the English version shall take precedence.



Web: www.thornovasolar.com