



695-720 W

High Efficiency Bifacial Single Glass TOPCon Module

TS-BWT66-G12



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



30 years lifespan brings 10-30% additional power generation comparing with conventional P-type module.



N-type solar cell has no LID naturally which can increase power generation.



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.

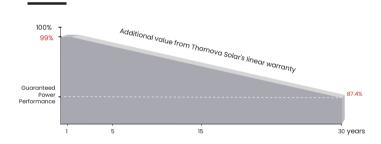
RE INSURANCE





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

LINEAR PERFORMANCE WARRANTY



Product quality & process guarantee Linear power guarantee

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. e confirm the certification status with regional sales repre

ELECTRICAL CHARACTERISTICS



Model of modules	TS-BWT66	6(695)-G12	TS-BWT66	6(700)-G12	TS-BWT66	(705)-G12	TS-BWT6	6(710)-G12	TS-BWT6	6(715)-G12	TS-BWT66	6(720)-G12
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Peak power - P _{mp} (W)	695	518	700	522	7019.53	525	710	529	715	533	720	536
Open circuit voltage - V _{oc} (V)	46.48	43.87	46.53	43.92	46.58	43.97	46.63	44.02	46.68	44.06	46.73	44.11
Short circuit current - $I_{sc}(A)$	18.68	15.09	18.74	15.14	18.80	15.19	18.86	15.24	18.92	15.29	18.98	15.33
MPP voltage - $V_{mp}(V)$	39.49	36.97	39.71	37.17	39.92	37.37	40.14	37.58	40.35	37.77	40.54	37.95
MPP current - I_{mp} (A)	17.60	14.01	17.63	14.03	17.66	14.05	17.69	14.08	17.72	14.10	17.76	14.13
Module efficiency - η _m (%)	22.	4 %	22.	5 %	22.7	7 %	22.	9 %	23.	0 %	23.	2 %

 $\textbf{STC} \quad \text{(Standard Testing Conditions): Irradiance 1000W/m}^2, \text{Cell Temperature 25} \,\,{}^{\circ}\!\!\text{C} \,, \text{Spectra at AM1.5}$

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)	770	776	781	787	792	798
Open circuit voltage - V _{oc} (V)	46.48	46.53	46.58	46.63	46.68	46.73
Short circuit current - $I_{sc}(A)$	20.70	20.76	20.83	20.90	20.96	21.03
MPP voltage - V _{mp} (V)	39.49	39.71	39.92	40.14	40.35	40.54
MPP current - I _{mp} (A)	19.50	19.53	19.57	19.60	19.63	19.68
Irradiance ratio (rear/front)	13.5 %					

STRUCTURAL CHARACTERISTICS

Module dimension (L*W*H)	2384 x 1303 x 35 mm (93.86 x 51.30 x 1.38 inch)
Weight	33.9 kg (74.74 lbs)
Number of cells	132 cells
Cell	N-type monocrystalline
Glass	Tempered, 3.2 mm AR, High transmittance, Low iron
Backsheet	Transparent white mesh backsheet
Frame	Anodized aluminum alloy
Junction box	IP68, 3 diodes
Output wire	4.0 mm ²
Wire length	300 mm / 1200 mm / Customized length
Connector	MC4 - EVO2
Packing specification	31 pcs/Pallet; 527 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
Bifaciality	80±5%

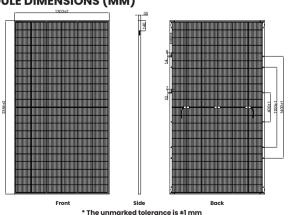
MECHANICAL LOADING

Front side maximum static loading (Pa)	5400
Rear side maximum static loading (Pa)	2400
Hailstone test (mm)	40

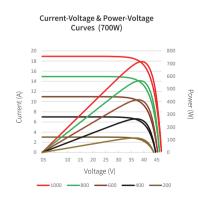
TEMPERATURE RATINGS

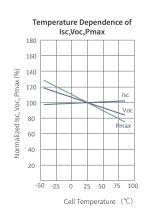
Temperature coefficient (P _{max})	-0.29 %/°C
Temperature coefficient (V _{oc})	-0.28 %/°C
Temperature coefficient (I _{sc})	+0.04 %/°C
Nominal operating cell temperature	45±2 ℃

MODULE DIMENSIONS (MM)



Length shown in mm





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