

TALESUN

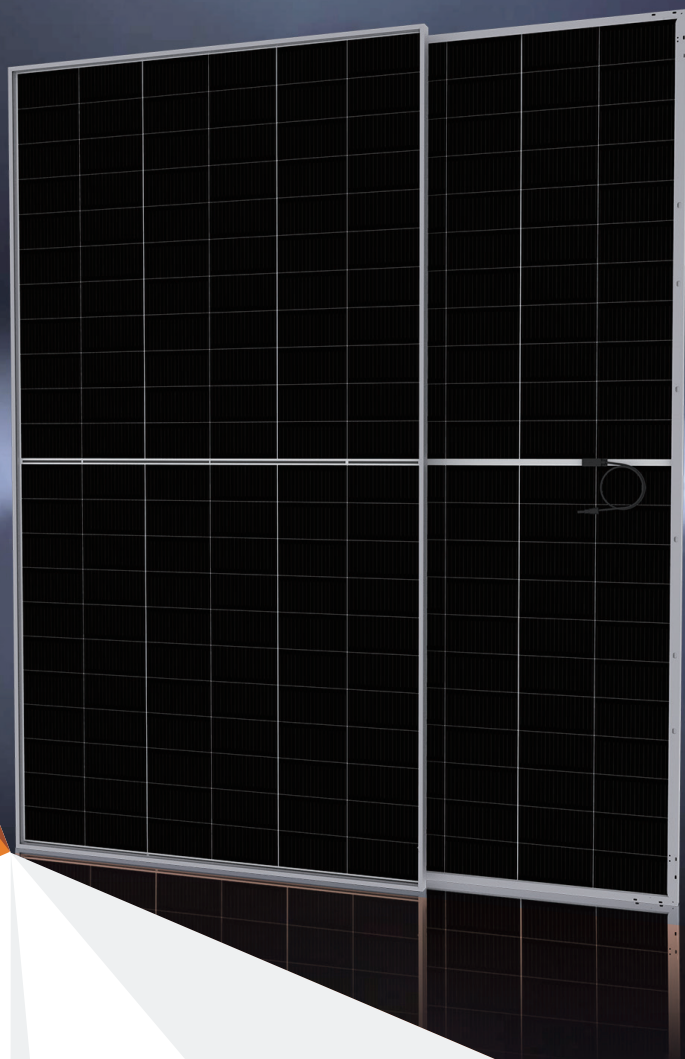
BIPRO

TM8G66M **132-cell**

690 - 710W

Bifacial Dual Glass

18BB Half-cut N-type

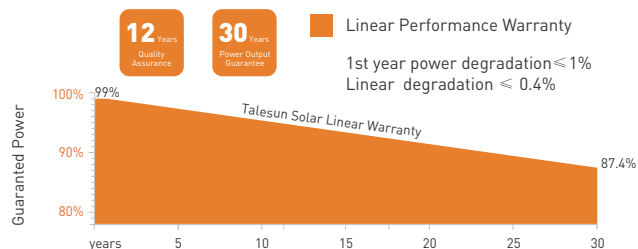


SYSTEM & PRODUCT CERTIFICATES

- IEC 61215 / IEC 61730 / UL 61730
- ISO 9001: 2015 Quality Management System
- ISO 14001: 2015 Environment Management System
- ISO 45001: 2018 Occupational Health and Safety Management Systems



PERFORMANCE WARRANTY



KEY FEATURES



16BB Half-cut Cell Technology

Lower LID degradation and better low light performance



Industry Leading High Yield

Bifacial TOPCon cell technology, Dual-sided power generation gain from back side depending on albedo, significantly reduce LCOE



Wider Application

No water-permeability and high wear-resistance, can be widely used in high-humid, windy and dusty area



IP68 Junction Box

High waterproof level

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* GL-EN-Version 2025.04.15

Suzhou Talesun Solar Technologies Co., Ltd.

TM8G66M - XXX(XXX represents Pmax at STC)
ELECTRICAL CHARACTERISTICS

Testing Condition	STC	BNPI	STC	BNPI	STC	BNPI	STC	BNPI	STC	BNPI
Maximum Power (Pmax/W)	690	759	695	765	700	770	705	776	710	781
Operating Voltage (Vmpp/V)	40.00	40.00	40.30	40.30	40.50	40.50	40.70	40.70	40.90	40.90
Operating Current (Impp/A)	17.23	18.95	17.25	18.98	17.29	19.02	17.33	19.06	17.36	19.10
Open-Circuit Voltage (Voc/V)	47.90	48.09	48.30	48.49	48.60	48.79	48.80	49.00	49.00	49.20
Short-Circuit Current (Isc/A)	18.25	20.08	18.28	20.11	18.32	20.15	18.36	20.20	18.40	20.24
Module Efficiency [%]	22.20		22.40		22.50		22.70		22.90	

STC: Irradiance 1000W/m², Spectra at AM1.5, Module Temperature 25°C. Power output tolerance: 0~+5W, Test uncertainty for Pmax/Voc/Isc: ±3%±5%±5%
BNPI: Irradiance: front 1000W/m², rear 135W/m², Cell Temperature 25°C, AM=1.5

REAR SIDE POWER GAIN(REFERENCE TO 705W FRONT)

Pmax gain	5%	10%	15%	20%	25%
Pmax/W	740	776	811	846	881
Vmpp/V	40.70	40.70	40.70	40.70	40.70
Impp/A	18.20	19.06	19.93	20.80	21.66
Voc/V	48.80	48.80	48.80	48.80	48.80
Isc/A	19.28	20.20	21.11	22.03	22.95

MECHANICAL CHARACTERISTICS

Cell Type	N-type Mono-Crystalline (18Busbar)
No. of Cells	132pcs in series (6*22)
Module Dimensions	2384*1303*33mm (93.86*51.30*1.30inches)
Weight	38.5kg (84.88lbs.)
Front Glass	2.0mm AR Coating Semi-tempered Glass
Back Glass	2.0mm Glazed Semi-tempered Glass
Frame	Anodized Aluminium Alloy
Junction Box	IP68, 3 Bypass Diodes
Output Cables	4mm² (IEC), 12AWG(UL) 350(+),280(-)mm in Length or Customized Length
Connectors	TALESUN(T01) Staubli(PV-KST4-EVO2A/XY,PV-KBT4-EVO2A/XY)

APPLICATION CONDITIONS

Maximum System Voltage	1500V DC
Operating Temperature	-40°C~+85°C
Maximum Series Fuse	35A
Safety Protection Class	Class II
Test Mechanical load*	Front side +5400Pa, Back side -2400Pa
Refer. Bifaciality Factor	φVoc: 98±5%, φIsc: 80±5%, φPmax: 80±5%
Fire Rating	Class C
[T98]max	70°C

*Refer to the installation manual for details

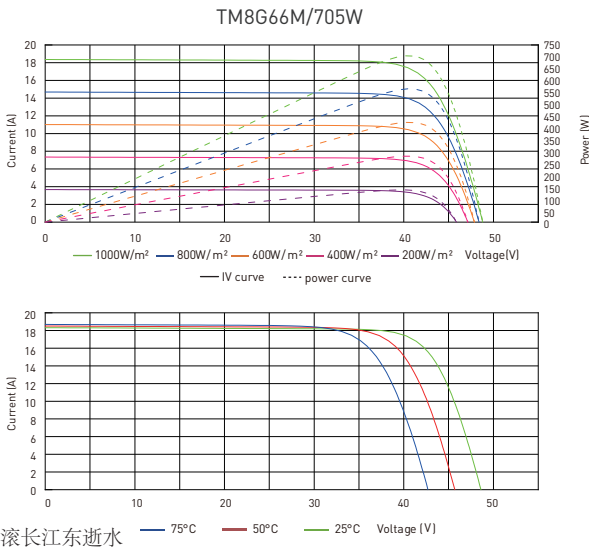
TEMPERATURE CHARACTERISTICS

Temperature Coefficient of Pmax	-0.29%/°C
Temperature Coefficient of Voc	-0.24%/°C
Temperature Coefficient of Isc	+0.043%/°C
Nominal Module Operating Temperature(NMOT)	43±2°C

PACKING CONFIGURATION

Pieces Per Pallet	33
Pieces Per Container(40'HQ)	594

Electrical Performance



TECHNICAL DRAWINGS

