

TALESUN

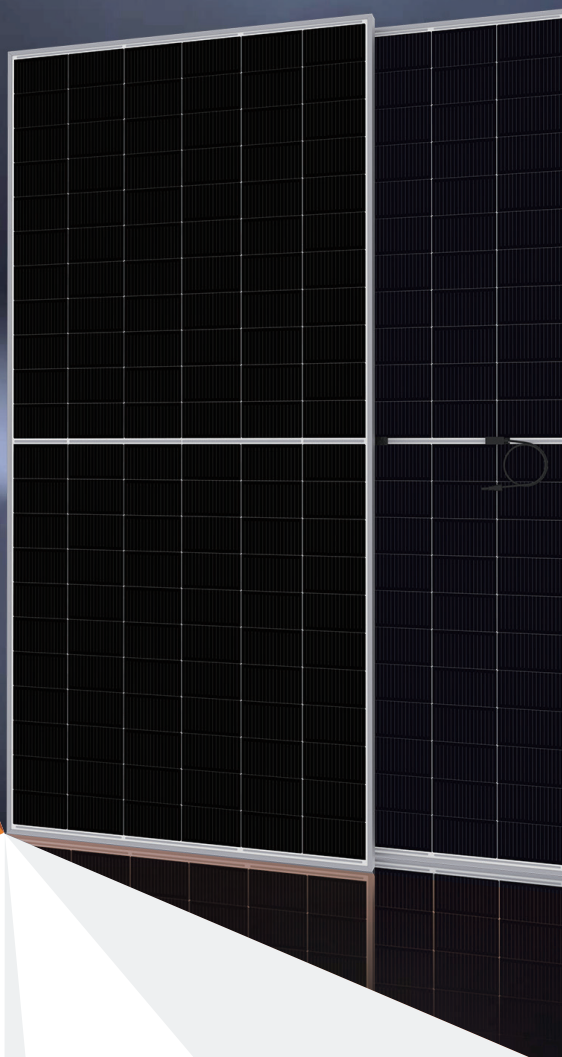
BIPRO

TM3G66M **132-cell**

605 - 625W

Bifacial Dual Glass

16BB Half-cut N-type

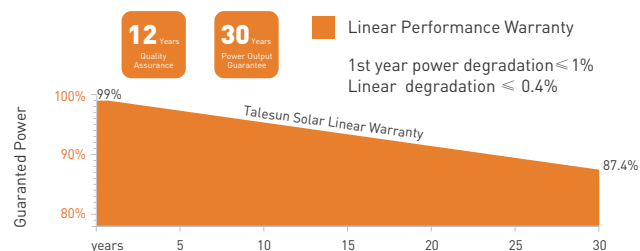


SYSTEM & PRODUCT CERTIFICATES

- 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.

TM3G66M - XXX (XXX represents Pmax at STC)

ELECTRICAL CHARACTERISTICS

Testing Condition	STC	BNPI	STC	BNPI	STC	BNPI	STC	BNPI	STC	BNPI
Maximum Power (Pmax/W)	605	666	610	671	615	677	620	682	625	688
Operating Voltage (Vmpp/V)	40.50	40.50	40.80	40.80	41.00	41.00	41.20	41.20	41.40	41.40
Operating Current (Impp/A)	14.94	16.43	14.96	16.46	15.00	16.50	15.05	16.56	15.10	16.61
Open-Circuit Voltage (Voc/V)	48.70	48.89	49.00	49.20	49.30	49.50	49.60	49.80	49.90	50.10
Short-Circuit Current (Isc/A)	15.83	17.41	15.86	17.45	15.90	17.49	15.94	17.53	15.98	17.58
Module Efficiency [%]	22.40		22.60		22.80		23.00		23.10	

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 615W FRONT)

Pmax gain	5%	10%	15%	20%	25%
Pmax/W	641	677	707	732	763
Vmpp/V	41.00	41.00	41.00	41.00	41.00
Impp/A	15.75	16.50	17.25	18.00	18.75
Voc/V	49.30	49.30	49.30	49.30	49.30
Isc/A	16.70	17.49	18.29	19.08	19.88

MECHANICAL CHARACTERISTICS

Cell Type	N-type Mono-Crystallin (16Busbar)
No. of Cells	132pcs in series (6*22)
Module Dimensions	2382*1134*30mm (93.78*44.65*1.18inches)
Weight	33.7kg (74.29lbs.)
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) 350mm(+),250mm(-) or Customized Length
Connectors	TALESUN(T01) Staubli(PV-KST4-EVO2A/XY,PV-KBT4-EVO2A/XY)

APPLICATION CONDITIONS

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

*Refer to the installation manual for details

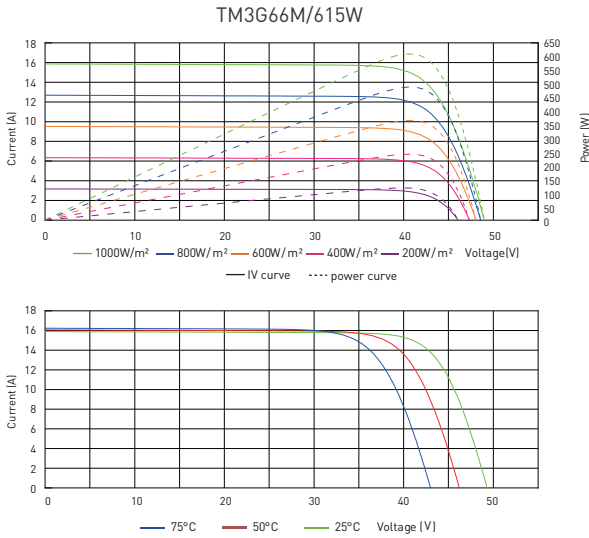
TEMPERATURE CHARACTERISTICS

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	36
Pieces Per Container(40'HQ)	720

Electrical Performance



TECHNICAL DRAWINGS

