

Talesun

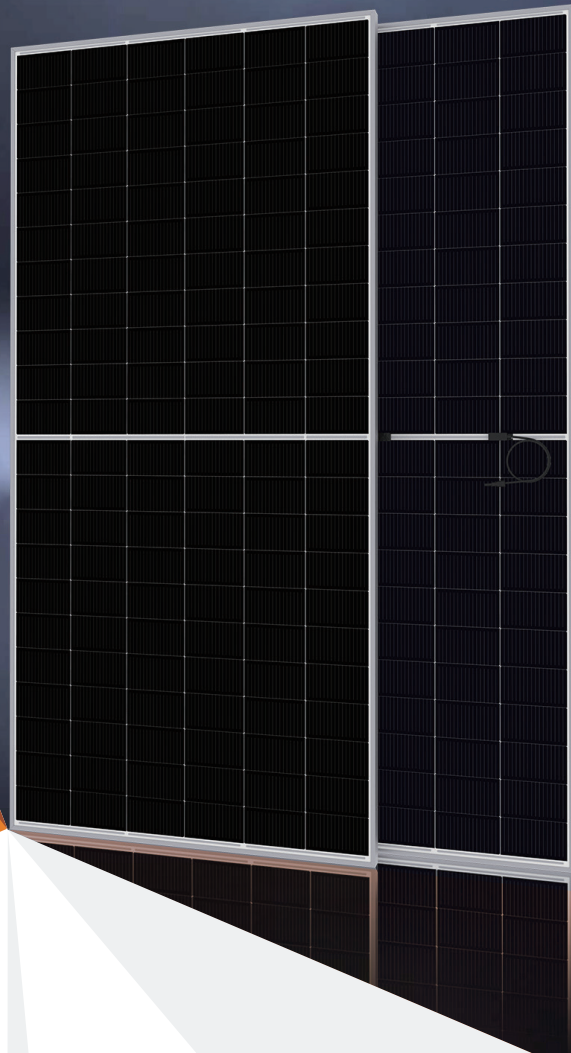
BIPRO

TM3G66M **132-cell**

625 - 650W

Bifacial Dual Glass

16BB Half-cut N-type

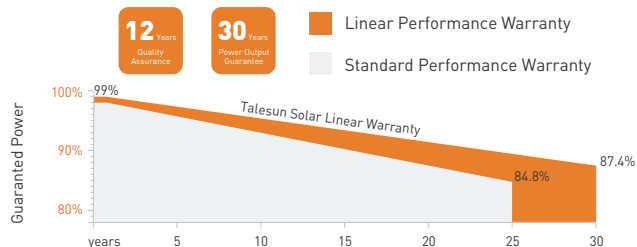


SYSTEM & PRODUCT CERTIFICATES

- 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/LeTID degradation and better low light performance
Attenuation $\leq 1\%$ (1st year) / $\leq 0.4\%$ (Linear)



Industry Leading High Yield

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



Excellent Anti-PID Performance

192 hours Anti-PID test



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

www.talesun.com

sales@talesun.com

* GL-EN-Version 2026.04.22

ELECTRICAL CHARACTERISTICS

Testing Condition	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT
Maximum Power (Pmax/W)	625	476	630	479	635	482	640	485	645	488	650	491
Operating Voltage (Vmpp/V)	41.40	38.90	41.60	39.10	41.81	39.30	42.03	39.50	42.25	39.70	42.47	39.90
Operating Current (Impp/A)	15.10	12.24	15.15	12.25	15.19	12.26	15.23	12.28	15.27	12.29	15.31	12.31
Open-Circuit Voltage (Voc/V)	49.90	47.40	50.20	47.70	50.50	48.00	50.80	48.30	51.10	48.60	51.40	48.90
Short-Circuit Current (Isc/A)	15.98	12.87	16.02	12.90	16.06	12.93	16.10	12.96	16.14	12.99	16.18	13.02
Module Efficiency [%]	23.14		23.32		23.51		23.69		23.88		24.06	

STC: Irradiance 1000W/m², Spectra at AM1.5, Module Temperature 25 °C. Power output tolerance: 0~+5W, Test uncertainty for Pmax: ±3%
 NMOT: Irradiance 800W/m², Spectra at AM1.5, Ambient Temperature 20 °C, Wind speed 1m/s

REAR SIDE POWER GAIN(REFERENCE TO 640W FRONT)

Pmax gain	5%	10%	15%	20%	25%
Pmax/W	672	704	736	768	800
Vmpp/V	42.03	42.03	42.03	42.03	42.03
Impp/A	15.99	16.75	17.51	18.28	19.04
Voc/V	50.80	50.80	50.80	50.80	50.80
Isc/A	16.91	17.71	18.52	19.32	20.13

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	4mm ² (IEC), 12AWG(UL) 350mm(+),250mm(-) or Customized Length
Connectors	MC4/MC4-EVO2A/Others

APPLICATION CONDITIONS

Maximum System Voltage	1500V/DC
Operating Temperature	-40°C~+85°C
Maximum Series Fuse	35A
Safety Protection Class	Class II
Mechanical Load*	Front side 5400Pa, Back side 2400Pa
Refer. Bifaciality Factor	80%±5%

*Refer to the installation manual for details

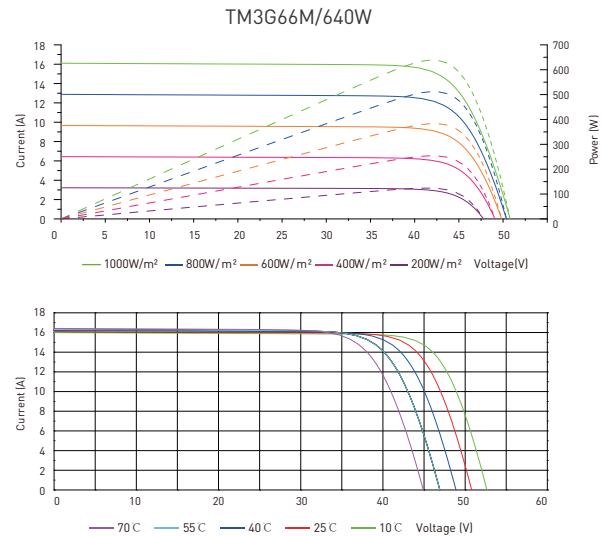
TEMPERATURE CHARACTERISTICS

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

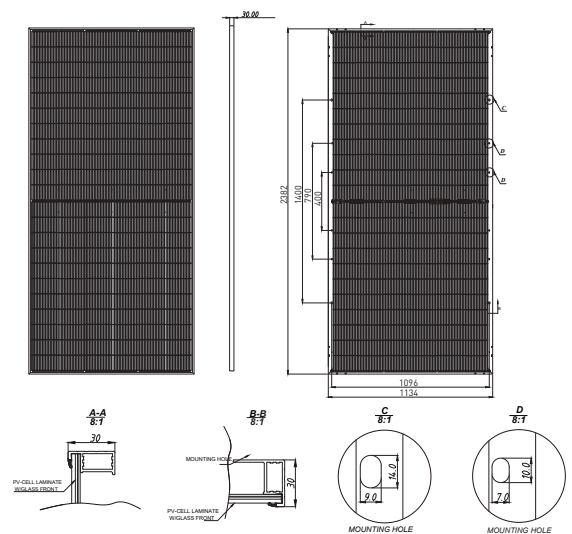
PACKING CONFIGURATION

Pieces Per Pallet	36	36(USA)
Pieces Per Container(40'HQ)	720	540

Electrical Performance



TECHNICAL DRAWINGS



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