



# BIPRO

TM8G66M **132-cell**

**675 - 695W**

Bifacial Dual Glass

18BB Half-cut Mono 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

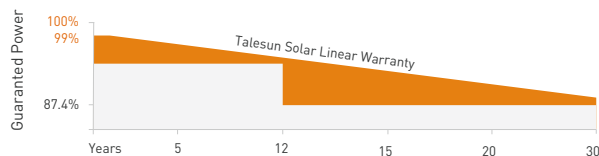


## PERFORMANCE WARRANTY

**12** Years  
Quality Assurance

**30** Years  
Power Output Guarantee

Linear Performance Warranty



## KEY FEATURES



### 18BB Half-cut Cell Technology

New circuit design, lower internal current, lower  $R_s$  loss  
Ga doped wafer, attenuation  $< 1\%$  (1st year) /  $\leq 0.4\%$  (Linear)



### Industry Leading High Yield

Bifacial TOPCon cell technology,  
Up to 30% additional power gain from back side depending on albedo



### Excellent Anti-PID Performance

2 times of industry standard 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

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\* GL-EN-Version 2023.09.25

## ELECTRICAL CHARACTERISTICS

Testing Condition	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT
Maximum Power (Pmax/W)	675	511	680	515	685	519	690	524	695	527
Operating Voltage (Vmp/V)	39.4	44.7	39.6	44.9	39.8	45.2	40.1	45.4	40.3	45.7
Operating Current (Imp/A)	17.12	14.62	17.16	14.65	17.19	14.67	17.23	14.71	17.25	14.73
Open-Circuit Voltage (Voc/V)	47.2	37.0	47.4	37.2	47.7	37.4	47.9	37.6	48.3	37.9
Short-Circuit Current (Isc/A)	18.14	13.80	18.18	13.84	18.21	13.86	18.25	13.91	18.28	13.91
Module Efficiency (%)	21.70		21.90		22.10		22.20		22.40	

STC: Irradiance 1000W/m<sup>2</sup>, Spectra at AM1.5, Module Temperature 25 °C. Power output tolerance: 0~+5W, Test uncertainty for Pmax: ±3%  
 NMOT: Irradiance 800W/m<sup>2</sup>, Spectra at AM1.5, Ambient Temperature 20 °C, Wind speed 1m/s

## REAR SIDE POWER GAIN(REFERENCE TO 690W FRONT)

Pmax gain	5%	10%	15%	20%	25%	30%
Pmax/W	725	760	794	829	863	898
Vmp/V	40.10	40.10	40.10	40.10	40.10	40.10
Imp/A	18.09	18.95	19.81	20.67	21.53	22.39
Voc/V	47.90	47.90	47.90	47.90	47.90	47.90
Isc/A	19.16	20.07	20.97	21.90	22.81	23.72

## MECHANICAL CHARACTERISTICS

Cell Type	N-type Mono-Crystallin (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	4mm <sup>2</sup> (IEC), 12AWG(UL) 350(+)/280(-)mm in Length or Customized Length
Connectors	T01/LJQ-3-CSY/MC4/MC4-EV02

## APPLICATION CONDITIONS

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

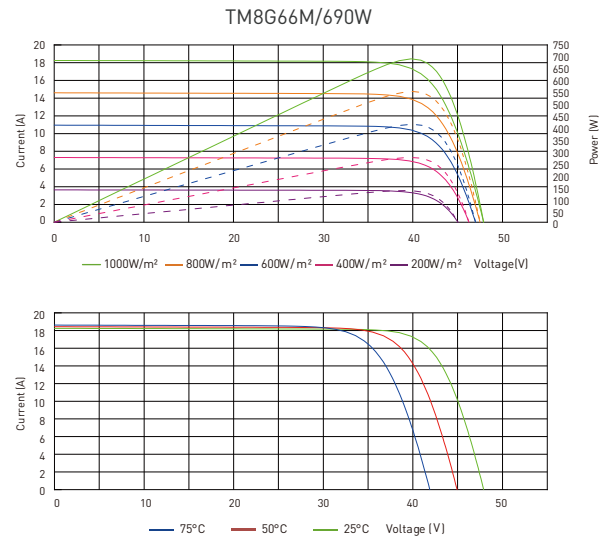
## TEMPERATURE CHARACTERISTICS

Temperature Coefficient of Pmax	-0.30%/°C
Temperature Coefficient of Voc	-0.24%/°C
Temperature Coefficient of Isc	+0.04%/°C
Nominal Module Operating Temperature(NMOT)	43±2°C

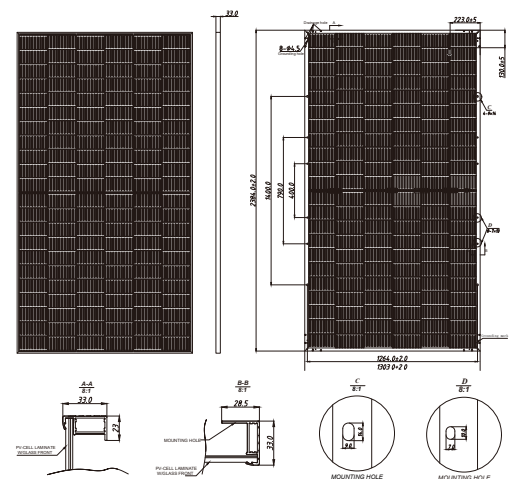
## PACKING CONFIGURATION

Pieces Per Pallet	33	33(USA)
Pieces Per Container(40'HQ)	594	495

## I-V CURVE



## TECHNICAL DRAWINGS



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