



# BIPRO

TD8G66M **132-cell**

650 - 670W

Bifacial Dual Glass

12BB Half-cut Mono Perc



## SYSTEM & PRODUCT CERTIFICATES

- IEC 61215 / IEC 61730 / UL 61703
- ISO 9001: 2015 Quality Management System
- ISO 14001: 2015 Environment Management System
- ISO 45001: 2018 Occupational Health and Safety Management Systems



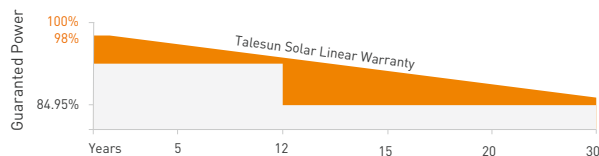
## PERFORMANCE WARRANTY

**12** Years  
Quality Assurance

**30** Years  
Power Output Guarantee

Linear Performance Warranty

Standard Performance Warranty



## KEY FEATURES



### 12BB Half-cut Cell Technology

New circuit design, lower internal current, lower  $R_s$  loss Ga doped wafer, attenuation  $<2\%$  (1st year) /  $\leq 0.45\%$  (Linear)



### Industry Leading High Yield

Bifacial PERC cell technology, 5%-25% more yield depends on different conditions



### 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 2022.03.01

## ELECTRICAL CHARACTERISTICS

Testing Condition	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT
Maximum Power (Pmax/W)	650	492	655	495	660	499	665	503	670	507
Operating Voltage (Vmpp/V)	37.8	35.4	38.0	35.6	38.2	35.8	38.4	36.0	38.6	36.1
Operating Current (Impp/A)	17.20	13.88	17.24	13.91	17.28	13.95	17.32	13.99	17.36	14.02
Open-Circuit Voltage (Voc/V)	45.4	42.9	45.6	43.1	45.8	43.3	46.0	43.5	46.2	43.7
Short-Circuit Current (Isc/A)	18.29	14.74	18.33	14.77	18.37	14.81	18.41	14.84	18.45	14.87
Module Efficiency [%]	20.90		21.10		21.30		21.40		21.60	

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 655W FRONT)

Pmax gain	5%	10%	15%	20%	25%
Pmax/W	688	721	753	786	819
Vmpp/V	38.00	38.00	38.00	38.00	38.00
Impp/A	18.10	18.96	19.83	20.69	21.55
Voc/V	45.40	45.40	45.40	45.40	45.40
Isc/A	19.22	20.13	21.05	21.96	22.88

## MECHANICAL CHARACTERISTICS

Solar Cell	Monocrystalline 210*210mm
No. of Cells	132 (6*22)
Module Dimensions	2384*1303*35mm (93.86*51.30*1.38inches)
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) 300mm 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	70%±5%

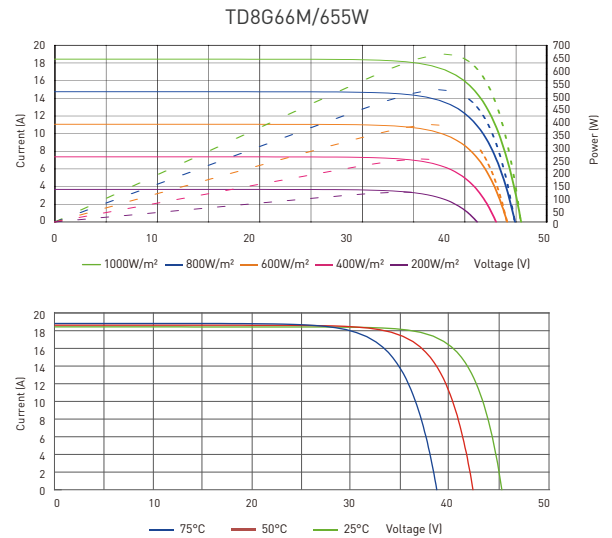
## TEMPERATURE CHARACTERISTICS

Temperature Coefficient of Pmax	-0.34%/°C
Temperature Coefficient of Voc	-0.25%/°C
Temperature Coefficient of Isc	+0.046%/°C
Nominal Module Operating Temperature(NMOT)	43±2°C

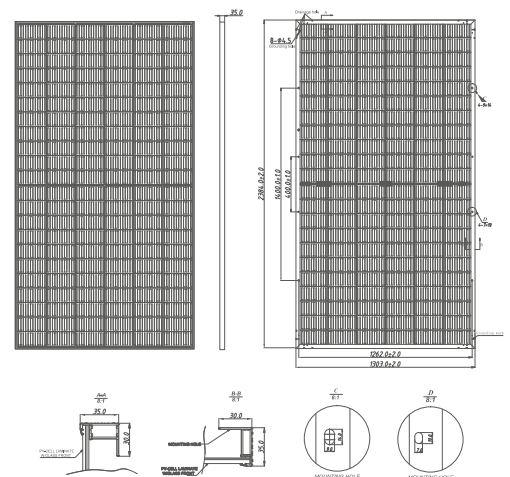
## PACKING CONFIGURATION

Pieces Per Pallet	31	31(USA)
Pieces Per Container(40'HQ)	527	465

## I-V CURVE



## TECHNICAL DRAWINGS



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