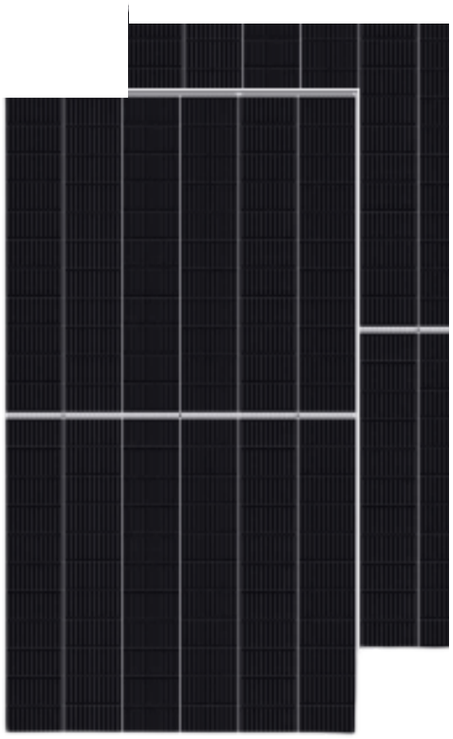
JOG International Ltd.

TALESUN

BIPRO

TD8G66M 132 HALF-CELL



645 - 665W

bifacial dual glass
12BB half-cut mono perc

KEY FEATURES

12BB half-cut cell technology

New circuit design, lower internal current, lower Rs loss Ga-doped wafer, attenuation＜2% (1st year) / ≤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 by TUV SUD

Wider application

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

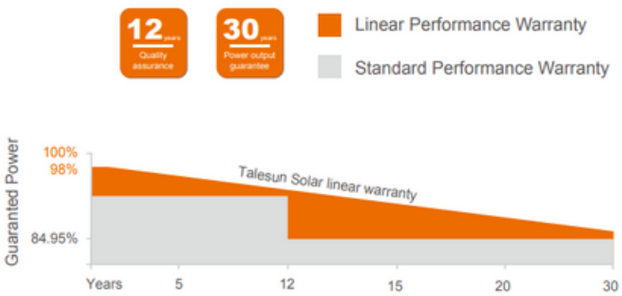
IP68 junction box

High waterproof level

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



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ELECTRICAL PARAMETERS

Performance at STC (Power Tolerance 0 ~ +3%)

Maximum Power (Pmax/W)	645	650	655	660	665
Operating Voltage (Vmpp/V)	37.6	37.8	38.0	38.2	38.4
Operating Current (Impp/A)	17.16	17.20	17.24	17.28	17.32
Open-Circuit Voltage (Voc/V)	45.0	45.2	45.4	45.6	45.8
Short-Circuit Current (Isc/A)	18.22	18.26	18.30	18.34	18.38
Module Efficiency ηm(%)	20.8	20.9	21.1	21.3	21.4

Performance at NMOT

Maximum Power (Pmax/W)	479	483	486	490	494
Operating Voltage (Vmpp/V)	35.1	35.3	35.5	35.7	35.9
Operating Current (Impp/A)	13.63	13.67	13.70	13.74	13.77
Open-Circuit Voltage (Voc/V)	42.4	42.6	42.8	43.0	43.2
Short-Circuit Current (Isc/A)	14.65	14.68	14.71	14.74	14.78

STC: Irradiance 1000W/m2, Cell Temperature 25°C, Air Mass AM1.5 NMOT:Irradiance at 800W/m2, Ambient Temperatue 20°C, Air Mass AM1.5, Wind Speed 1m/s

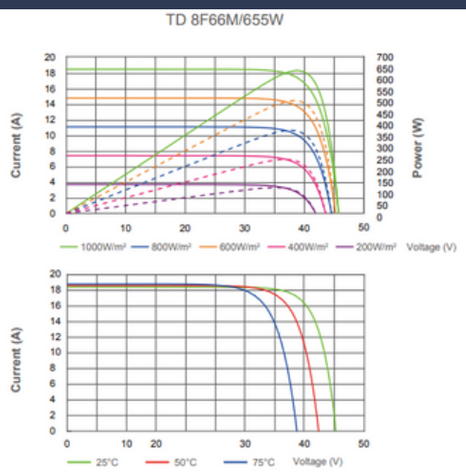
Electrical characteristics with different rear side power gain (refer to 655W front)

Pmax gain	Pmax/W	Vmpp/V	Impp/A	Voc/V	Isc/A
5%	688	38.0	18.10	45.4	19.22
10%	721	38.0	18.96	45.4	20.13
15%	753	38.0	19.83	45.4	21.05
20%	786	38.0	20.69	45.4	21.96
25%	819	38.0	21.55	45.4	22.88

MECHANICAL SPECIFICATION

Cell Type	Monocrystalline
Cell Dimensions	210*210mm
Cell Arrangement	132 (6*22)
Weight	38.5kg (84.88lbs.)
Module Dimensions	2384*1303*35mm (93.86*51.30*1.38inches)
Cable Length	Portrait 300mm/Landscape 1200mm/Customized
Cable Cross Section Size	TUV: 4mm2 (0.006inches2)/UL: 12AWG
Front Glass	2.0mm (0.08 inches) AR Coating Semi-tempered Glass
Back Glass	2.0mm (0.08 inches) Glazed Semi-tempered Glass
No. of Bypass Diodes	3/6
Packing Configuration (1)	31pcs/carton, 527pcs/40hq
Packing Configuration (for USA)	31pcs/carton, 465pcs/40hq
Frame	Anodized Aluminium Alloy
Junction Box	IP68

I-V CURVE

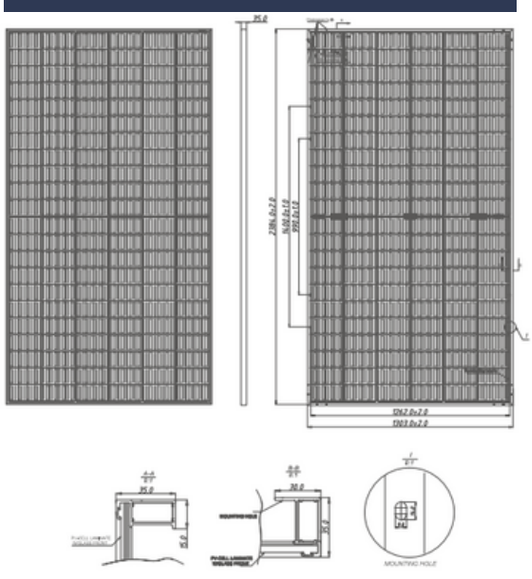


OPERATING CONDITIONS

Maximun System Voltage	1500V/DC
Operating Temperature	-40°C ~ +85°C
Maximun Series Fuse	35A
Static Loading	Snow Loading: 5400Pa/ Wind Loading: 2400Pa
Conductivity at Ground	≤0.1Ω
Safety Class	II
Resistance	≥100MΩ
Connector	PV-02/LJQ-3/LJQ-3-CSY/MC4-EVO2
Backside Output Ratio*	70% ± 5%

Under STC: Backside Output Ratio = Pmax(rear) / Pmax(front)

TECHNICAL DRAWINGS



TEMPERATURE COEFFICIENT

Temperature Coefficient Pmax	-0.36%/°C
Temperature Coefficient Voc	-0.26%/°C
Temperature Coefficient Isc	+0.043%/°C
NMOT	43±2°C

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