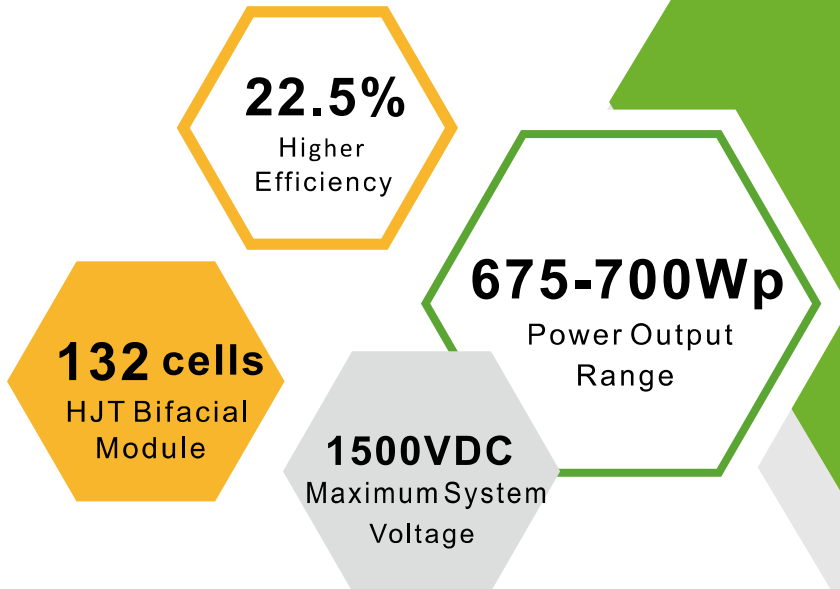


210 HETEROJUNCTION MODULE

ULTRA-HIGH POWER GENERATION
ULTRA-LOW CARBON EMISSION



TSM132-8-675-700BHDG

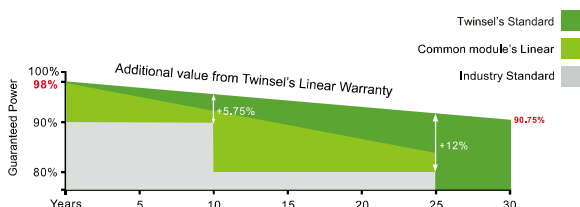


KEY SALIENT FEATURES:

- Global, Tier 1 bankable brand, with independently certified state-of-the-art automated manufacturing
- N-type solar cell without LID caused by B-O
- PID Resistance
- Better Temperature Coefficient
- Bifacial technology enables additional energy harvesting from rear side

- Higher power generation
- Module Imp binning radically reduces string mismatch losses
- Excellent wind load 2400Pa & snow load 5400Pa under certain installation method
- Comprehensive product and Management system certification
 - ◆ IEC61215:2016; IEC61730-1/-2:2016;
 - ◆ ISO 9001:2015 Quality Management System
 - ◆ ISO 14001:2015 Environmental Management System
 - ◆ ISO 45001:2018 Occupational Health and Safety Management System

LINEAR PERFORMANCE WARRANTY

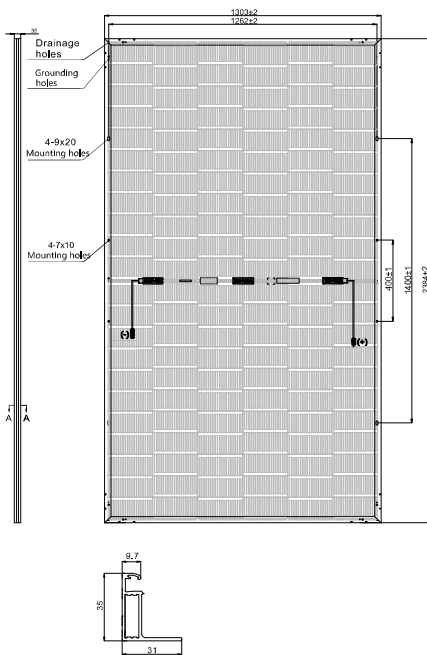


- Product Warranty
- Linear Power Warranty
- Power retention rate within 30 years



Add: No.5 Xiayang Road, Taoyuan Street, Ninghai County, Ningbo City, Zhejiang Province
Tel: +86-574-59953157
Fax: +86-574- 59953959
E-mail: tony@twinsel.com
Website: www.twinsel.com

Dimensions of PV Module Unit: mm



ELECTRICAL DATA (STC)

Model Number	TSM132-8-675BHDG	TSM132-8-680BHDG	TSM132-8-685BHDG	TSM132-8-690BHDG	TSM132-8-695BHDG	TSM132-8-700BHDG
Rated Power in Watts-Pmax(Wp)	675	680	685	690	695	700
Open Circuit Voltage-Voc(V)	49.38	49.47	49.56	49.65	49.74	49.83
Short Circuit Current-Isc(A)	17.40	17.48	17.56	17.66	17.74	17.82
Maximum Power Voltage-Vmpp(V)	41.41	41.48	41.56	41.63	41.71	41.78
Maximum Power Current-Imp(A)	16.32	16.41	16.50	16.60	16.68	16.77
Module Efficiency (%) *	21.7	21.9	22.1	22.2	22.4	22.5

STC: Irradiance 1000 W/m², Cell Temperature 25°C, Air Mass AM1.5 according to EN 60904-3.
Bifacial factor:85±5(%) * Module Efficiency (%): Round-off to the nearest number

Electrical characteristics with 10% rear side power gain

	TSM132-8-675BHDG	TSM132-8-680BHDG	TSM132-8-685BHDG	TSM132-8-690BHDG	TSM132-8-695BHDG	TSM132-8-700BHDG
Total Equivalent power -Pmax (Wp)	743	748	754	759	765	770
Open Circuit Voltage-Voc(V)	49.38	49.47	49.56	49.65	49.74	49.83
Short Circuit Current-Isc(A)	19.14	19.23	19.32	19.43	19.51	19.60
Maximum Power Voltage-Vmpp(V)	41.41	41.48	41.56	41.63	41.71	41.78
Maximum Power Current-Imp(A)	17.95	18.05	18.15	18.26	18.35	18.44

Rear side power gain: The additional gain from the rear side compared to the power of the front side at the standard test condition. It depends on mounting (structure, height, tilt angle etc.) and albedo of the ground.

ELECTRICAL DATA (NMOT)

Model Number	TSM132-8-675BHDG	TSM132-8-680BHDG	TSM132-8-685BHDG	TSM132-8-690BHDG	TSM132-8-695BHDG	TSM132-8-700BHDG
Maximum Power-Pmax (Wp)	515.6	519.3	523.0	527.2	530.9	534.5
Open Circuit Voltage-Voc (V)	46.27	46.35	46.44	46.52	46.61	46.69
Short Circuit Current-Isc (A)	14.27	14.34	14.40	14.48	14.55	14.61
Maximum Power Voltage-Vmpp (V)	38.71	38.78	38.85	38.93	39.00	39.07
Maximum Power Current-Imp (A)	13.32	13.39	13.46	13.54	13.61	13.68

NMOT: Irradiance at 800 W/m², Ambient Temperature 20°C, Wind Speed 1 m/s.

MECHANICAL DATA

Solar cells	HJT cell
Cell configuration	132 cells (6×11+6×11)
Module dimensions	2384×1303×35mm
Weight	38.5kg
Superstrate	High Transmission, AR Coated Heat Strengthened Glass
Substrate	Heat Strengthened Glass
Frame	Anodized Aluminium Alloy, Silver Color
J-Box	Potted, IP68, 1500VDC, TÜV&UL Certified
Cables	4.0mm ² (12AWG), Positive(+)350mm, Negative(-)230mm (Connector Included)
Connector	Twinsel PV-SY02, IP68

TEMPERATURE & MAXIMUM RATINGS

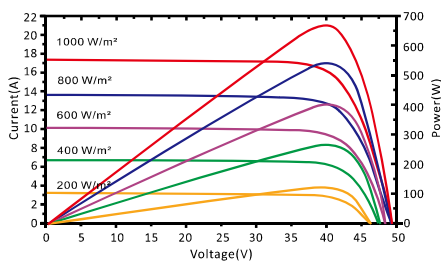
Nominal Module Operating Temperature (NMOT)	43°C±2°C
Temperature Coefficient of Voc	-0.22%/°C
Temperature Coefficient of Isc	0.047%/°C
Temperature Coefficient of Pmax	-0.24%/°C
Operational Temperature	-40°C~+85°C
Maximum System Voltage	1500VDC
Max Series Fuse Rating	35A
Limiting Reverse Current	35A

PACKAGING CONFIGURATION

	40ft(HQ)
Number of modules per container	558
Number of modules per pallet	31
Number of pallets per container	18
Packaging box dimensions (LxWxH) in mm	1320×1120×2520
Box gross weight[kg]	1245

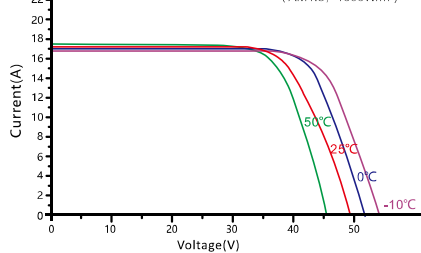
TSM132-8-690BHDG

I-V characteristics at different irradiances



I-V characteristics at different temperatures

(AM1.5, 1000W/m²)



Our Partners: