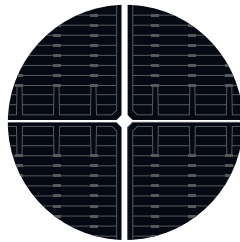


HYPRO 435 - 460W TH3G48M

Bifacial Dual Glass
0MBB Half Cell N-type HJT



KEY FEATURES

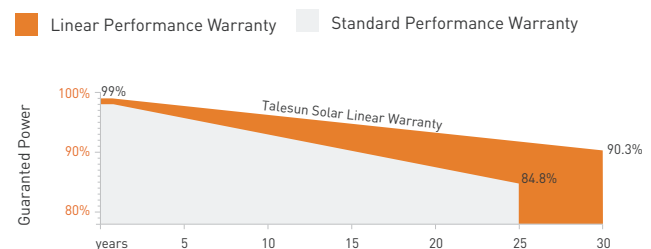
- Better Shading Tolerance
- Ultra-High Bifacial Factor
- Ultra-High Power Generation
- Most Stable Power Temperature Coefficient
- Lead Technology of Metallization Process
- Excellent Anti-LID & Anti-PID Performance

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



15 Years
Product Warranty

30 Years
Linear Power Warranty

1%
First-year Degradation

0.30 %
Annual Degradation 30 Years

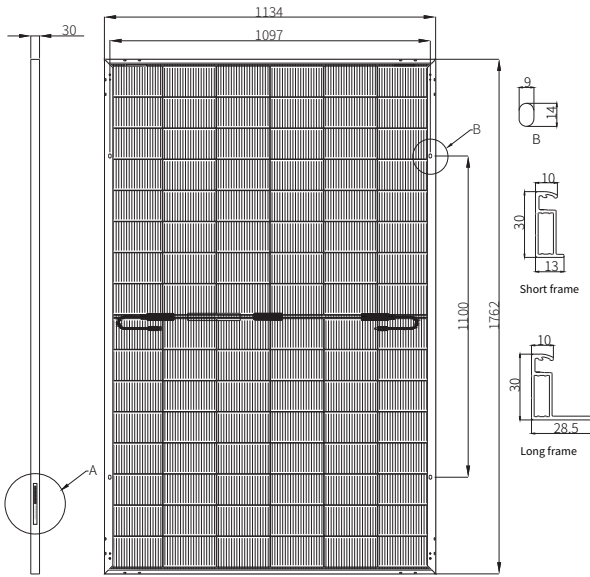
TALESUN-TH3G48M

96-Half-Cell Bifacial HJT Module

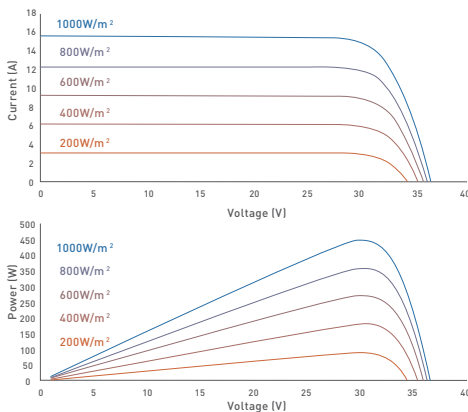
• BloombergNEF Tier 1 PV module manufacturer

Engineering Drawings

Unit: mm



I-V Curve (445W)



Temperature Coefficients

Temperature Coefficient of Pmax	-0.24%/°C
Temperature Coefficient of Voc	-0.22%/°C
Temperature Coefficient of Isc	+0.04%/°C

Operating Conditions

Nominal Operating Cell Temp.	44±2°C
Operating Temperature	-40~+85°C
Maximum System Voltage	DC1500V
Maximum Series Fuse Rating	30A
Tolerance of Pmax	0~+3%
Power Selection	0~+5W
Bifaciality	90±5%
Safety Class	Class II

Mechanical Characteristics

Cell Type	HJT
No. of Cells	96 (6x16)
Dimensions	1762x1134x30mm
Weight	21.8 kg
Junction Box	IP68
Cable	4mm²; 1250mm or customized; UV resistant
Connector	MC4 / MC4-Evo2 / MC4-Evo2A / PV-H4 / Z4S-abcd / PV-ZH202B
Frame	Anodized aluminum alloy frame
Max Static Load (front side/rear side)	5400Pa / 2400Pa
Glass	Dual glass, 1.6mm

Electrical Characteristics

STC

TALESUN-TH3G48M	435	440	445	450	455	460
Maximum Power (Pmax/W)	435	440	445	450	455	460
Module Efficiency (%)	21.8	22.0	22.3	22.5	22.8	23.0
Voltage at Pmax (Vmp/V)	30.50	30.61	30.72	30.83	30.94	31.05
Current at Pmax (Imp/A)	14.27	14.38	14.49	14.60	14.71	14.82
Open Circuit Voltage (Voc/V)	36.42	36.52	36.62	36.72	36.82	36.92
Short Circuit Current (Isc/A)	15.20	15.31	15.42	15.53	15.64	15.75

STC: AM1.5, 1000W/m², 25°C.

BNPI

Maximum Power (Pmax/W)	488	493	499	505	510	515
Voltage at Pmax (Vmp/V)	30.61	30.72	30.83	30.94	31.05	31.16
Current at Pmax (Imp/A)	15.94	16.07	16.19	16.31	16.44	16.56
Open Circuit Voltage (Voc/V)	36.55	36.65	36.75	36.85	36.95	37.05
Short Circuit Current (Isc/A)	17.05	17.17	17.29	17.42	17.54	17.66

BNPI: AM1.5, 1000W/m², 135W/m², 25°C.

NOCT

Maximum Power (Pmax/W)	332	336	340	344	347	351
Voltage at Pmax (Vmp/V)	29.12	29.23	29.34	29.45	29.55	29.65
Current at Pmax (Imp/A)	11.40	11.49	11.58	11.67	11.76	11.84
Open Circuit Voltage (Voc/V)	34.76	34.86	34.95	35.05	35.14	35.24
Short Circuit Current (Isc/A)	12.15	12.24	12.32	12.41	12.50	12.59

NOCT: AM1.5, 800W/m², 20°C, 1m/s.

Packaging

	40HQ
Modules Per Pallet	36
Pallets Per Container	26
Modules Per Container	936



The specification and key features described in this datasheet may deviate slightly and are not guaranteed. Due to ongoing innovation, R&D enhancement, Suzhou Talesun Solar Technologies Co., Ltd. reserves the right to make any adjustment to the information described herein at any time without notice. Please always obtain the most recent version of the datasheet which shall be duly incorporated into the binding contract made by the parties governing all transactions related to the purchase and sale of the products described herein.