

Bifacial Double Glass DBC Module (Black Pro)

PB-DH96TE-460
 PB-DH96TE-465
 PB-DH96TE-470
 PB-DH96TE-475



Key Features



High Efficiency

Leading module efficiency in industry, up to 23.8%



Excellent Appearance and Performance

Front without busbars design, low risk of micro-crack



High Reliability

Passed 3*IEC standard test, 25 years materials warranty, 30 years power warranty



High power generation

Higher power generation and lower BOS cost than conventional modules



Better temperature coefficient

Nominal Max. Power(Pmax) is as low as -0.260%/°C, improving the power generation efficiency of the modules



Superior Low Irradiance Performance

Excellent low irradiance performance, increase power generation in low-light conditions like mornings, evenings and cloudy days

Maximum Power Output

475W

Maximum Module Efficiency

23.8%

Power Binning

0~+5W

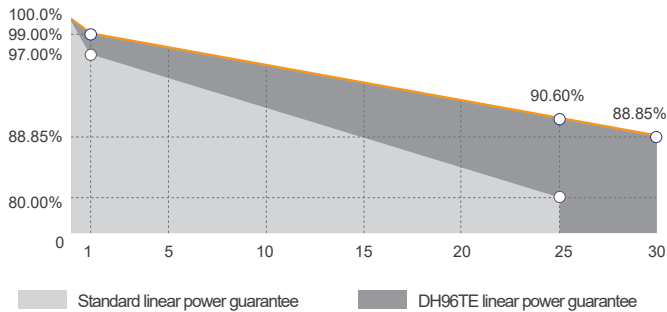
Product and Quality Certifications

IEC 61215, IEC 61730

ISO 9001: Quality Management System

ISO 14001: Environment Management System

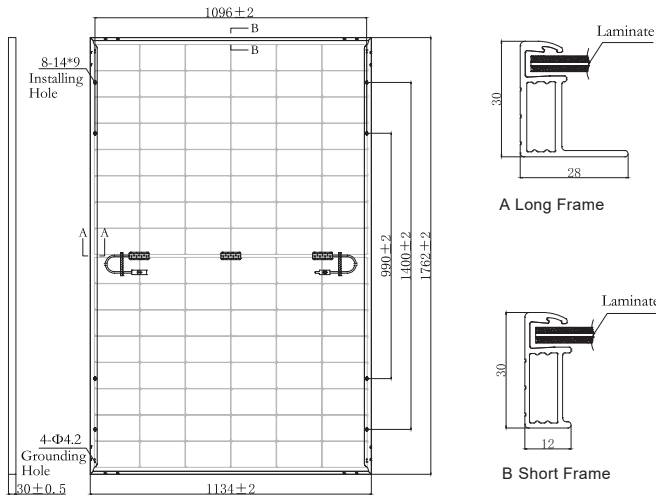
ISO 45001: Occupational Health and Safety Management System



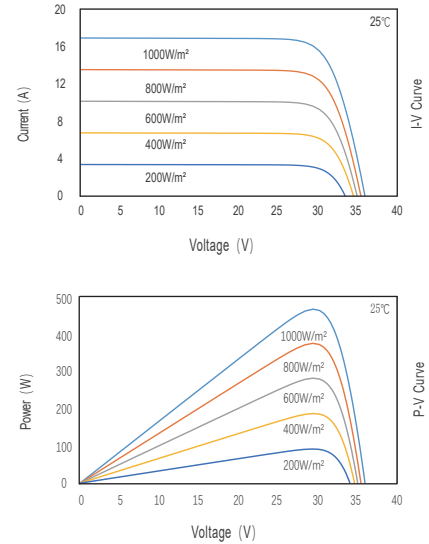
Leading product and power warranty

1.00% 1st-year Degradation **0.35%** Annual Degradation **25** Years materials and workmanship warranty **30** Years linear power warranty

Engineering Drawing (mm)



Characteristic Curves(475W)



Electrical Parameters (STC *)

Nominal Max. Power(Pmax/W)	460	465	470	475
Open Circuit Voltage(Voc/V)	35.62	35.79	35.96	36.13
Short Circuit Current(Isc/A)	16.40	16.48	16.56	16.64
Operating Voltage(Vmp/V)	29.80	29.97	30.14	30.30
Operating Current(Imp/A)	15.44	15.52	15.60	15.68
Efficiency(%)	23.0	23.3	23.5	23.8
Isc-BSI (±5%)	19.84	19.94	20.04	20.13

STC *: Irradiance = 1000 W/m², Cell Temperature = 25°C, AM = 1.5
Test condition is based on the front side

Electrical Parameters (NMOT *)

Nominal Max. Power(Pmax/W)	352	356	359	363
Open Circuit Voltage(Voc/V)	34.29	34.45	34.62	34.78
Short Circuit Current(Isc/A)	13.23	13.30	13.36	13.43
Operating Voltage(Vmp/V)	28.24	28.40	28.55	28.71
Operating Current(Imp/A)	12.46	12.52	12.59	12.65

NMOT *: Irradiance = 800 W/m², Ambient Temperature = 20°C, AM = 1.5,
Wind Speed = 1 m/s
Test condition is based on the front side

Electrical Parameters (BNPI*)

Nominal Max. Power(Pmax/W)	500	505	510	515
Open Circuit Voltage(Voc/V)	35.62	35.79	35.96	36.13
Short Circuit Current(Isc/A)	17.95	18.04	18.12	18.21
Operating Voltage(Vmp/V)	29.80	29.97	30.14	30.30
Operating Current(Imp/A)	16.89	16.98	17.07	17.16

BNPI *: front irradiance=1000W/m², rear irradiance=135W/m²,
Cell Temperature = 25°C, AM = 1.5
Pmax bifaciality coefficient 70±5%, Voc bifaciality coefficient 95±5%
Isc bifaciality coefficient 70±5%

Mechanical Parameters

Cell Type	N Type
Module Size	1762×1134×30mm
Glass Thickness	1.6mm + 1.6mm
Module Weight	21.6Kg
Output Cable	4mm ² , cable length 1200mm (can be customized)
Connector	See Note
Junction Box	IP68, 3 bypass diodes
Frame	Anodized aluminium alloy (Black)

Connector*:

- 1.PV-DA01M2-XY / PV-DA02M2-XY (DAS Solar)
- 2.PV-ZH202B (Zhejiang Zhonghuan)
- 3.PV-KST4-EVO2/xy_UR,PV-KBT4-EVO2/xy_UR (Staubli)
- 4.PV-KST4-EVO2A/xy,PV-KBT4-EVO2A/xy (Staubli)
- 5.PV-JK03M2/xy (Plug+Socket)(Jinko)

Temperature Coefficients

Short Circuit Current(Isc)	+0.050%/°C
Open Circuit Voltage(Voc)	-0.22%/°C
Nominal Max. Power(Pmax)	-0.260%/°C
NMOT	42±2°C

Operating Parameters

Max. System Voltage	DC1500V
Power Measurement Tolerance	±3%
Operating Temperature	-40°C ~ +85°C
Max. Fuse Rated Current	30A
Static Load	Front 5400Pa, Back 2400Pa
Packing Data	37 pcs/Pallet ;222(20GP);962(40HQ)