



Monofacial Double Glass Module (Black Frame)

PB-DH96NE.A-440

PB-DH96NE.A-445

PB-DH96NE.A-450

PB-DH96NE.A-455

PB-DH96NE.A-460



Key Features



High Efficiency

Leading module efficiency in industry, up to 23.0%



Excellent Appearance and Performance

symmetrical design, low risk of micro-crack



High Reliability

25 years materials warranty, 30 years power warranty



Low NMOT

As low as 42°C, improving the power generation efficiency



Better low irradiance performance

Higher power output even under low irradiance environments like on cloudy or foggy days



Extensive Application Scenes

More extensive application, snow field, high humidity and strong wind

Maximum
Power Output

460W

Maximum
Module Efficiency

23.0%

Power
Binning

0~+5W

Product and Quality Certifications

IEC 61215, IEC 61730

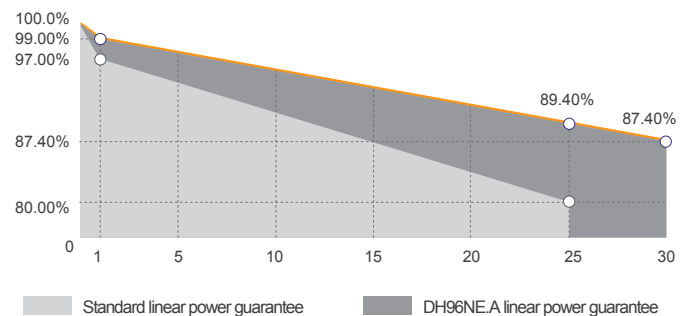
ISO 9001: Quality Management System

ISO 14001: Environment Management System

ISO 45001: Occupational Health and Safety Management System



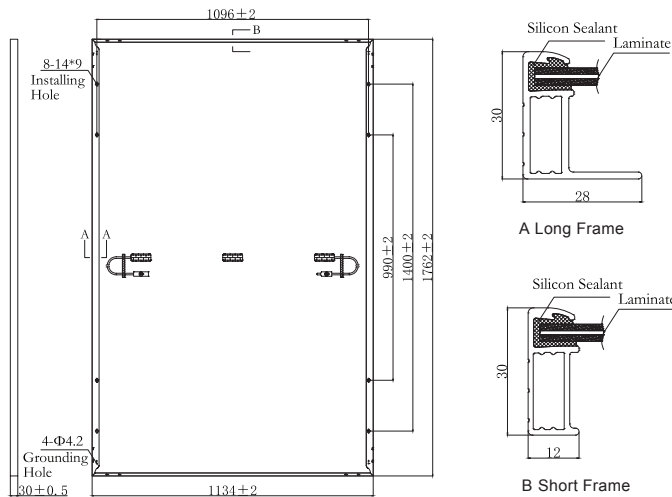
Safety Class: Class II Fire Safety: Class C



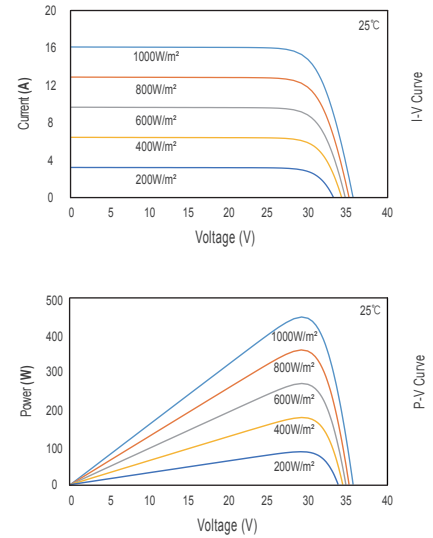
Leading product and power warranty

1.00% 1st-year Degradation 0.40% Annual Degradation 25 Years Materials and workmanship warranty 30 Years Linear power warranty

Engineering Drawing (mm)



Characteristic Curves(450W)



Electrical Parameters (STC *)

Nominal Max. Power(Pmax/W) ±3%	440	445	450	455	460
Open Circuit Voltage(Voc/V) ±3%	34.92	35.11	35.30	35.50	35.68
Short Circuit Current(Isc/A) ±5%	15.94	16.01	16.08	16.16	16.22
Operating Voltage(Vmp/V)	29.65	29.83	30.02	30.22	30.41
Operating Current(Imp/A)	14.84	14.92	14.99	15.06	15.13
Efficiency(%)	22.0	22.3	22.5	22.8	23.0

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

Mechanical Parameters

Cell Type	N Type
Module Size	1762×1134×30mm
Glass Thickness	1.6mm + 1.6mm
Module Weight	21.6Kg
Output Cable	4mm², 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)

Electrical Parameters (NMOT *)

Nominal Max. Power(Pmax/W) ±3%	335	339	343	347	350
Open Circuit Voltage(Voc/V) ±3%	33.44	33.62	33.80	33.99	34.16
Short Circuit Current(Isc/A) ±5%	12.85	12.91	12.96	13.03	13.08
Operating Voltage(Vmp/V)	28.02	28.19	28.37	28.56	28.74
Operating Current(Imp/A)	11.96	12.03	12.08	12.14	12.20

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

Operating Parameters

Max. System Voltage	DC1500V
Power Measurement Tolerance	±3%
Module[T98] max[°C]	70
Max. Fuse Rated Current	30A
Test Load	Front 5400Pa, Back 2400Pa

Temperature Coefficients

Short Circuit Current(Isc)	+0.045%/°C
Open Circuit Voltage(Voc)	-0.25%/°C
Nominal Max. Power(Pmax)	-0.280%/°C
NMOT	42±2°C

Packing Data

Packing Type	20'GP	40'HQ
Piece/Pallet	36	36
Pallet/Container	6	26
Piece/Container	216	936