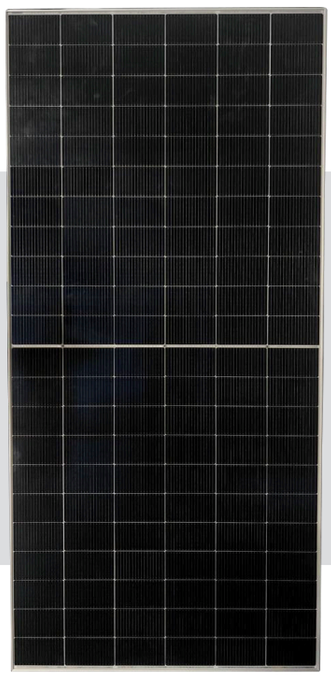
ANCHOR by Panasonic

CHARGE UP THE FUTURE
SOLAR POWER SOLUTIONS

605-625 Watt

132 HALF-CELL N-TYPE TOPCON DUAL GLASS BIFACIAL MODULE

AE13TDXXXTHC16B5



Dual Glass Bifacial Module

Aesthetics Meets Performance

Special Cell Design

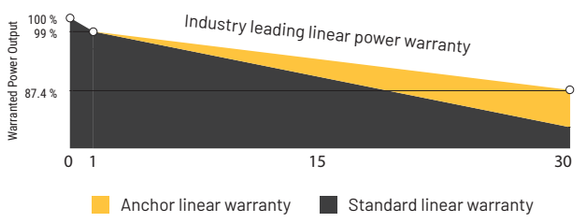
16BB Design decreases the distance between bus bars and finger grid line for power increase. Half-cell reduces internal losses to increase module efficiency.

Trust Anchor to Deliver Reliable Performance Over Time

- World-class manufacturer of crystalline silicon photovoltaic modules
- Rigorous quality control meeting the highest international standards: ISO 9001, ISO 14001 and ISO 45001
- Regular independently checked production process from international accredited institute/company
- Tested for harsh environments (IEC61701, IEC62716)
- Long-term reliability tests
- 2 × 100% EL inspection ensuring defect-free modules

Industry-leading Warranty based on nominal power

- First year degradation : 1%
- Annual degradation : 0.40%
- Product Warranty: 15 years
- Linear performance warranty: 30 years



High module conversion efficiency
Module efficiency up to 23.1% achieved through advanced cell technology and manufacturing process

Anchor current sorting process
Up to 2 % power loss caused by current mismatch could be diminished by current sorting technique to maximize system power output

Excellent weak light performance
More power output in weak light condition, such as haze, clouds, early and late sun hours

Lower operating temperature
Lower operating temperature and temperature coefficient increases the power output

Extended wind and snow load tests
Module certified to withstand extreme wind (2400 Pascal) and snow loads (5400 Pascal) *

Withstanding Harsh Environment
Reliable quality leads to better sustainability even in harsh environment like desert and coastal area

Certificatons and standards:
IEC 61215, IEC 61730, IEC 62716, IEC 61701

* Please refer to PLSIND Standard Module Installation Manual for details. ** Please refer to PLSIND Product Warranty for details.

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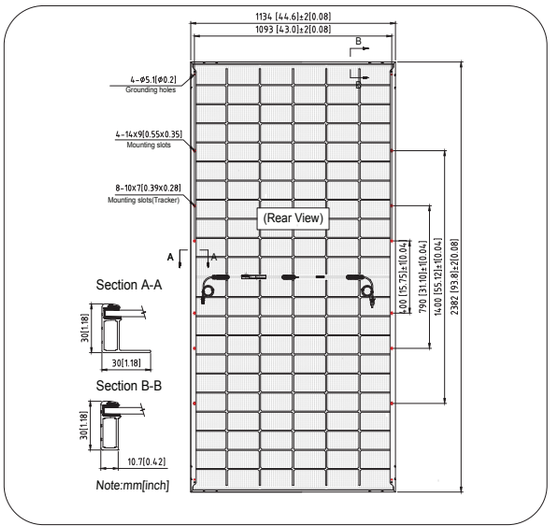

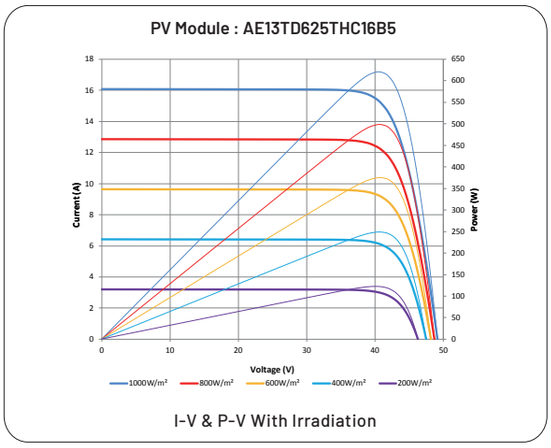

I-V & P-V With Irradiation

Dealer Information

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• AE13TDXXXTHC16B5

Electrical Characteristics

STC	AE13TDXXXTHC16B5				
Wattage, Wp	605W	610W	615W	620W	625W
Voltage at Max Power, Vmax	40.31V	40.48V	40.65V	40.82V	40.98V
Open Circuit Voltage, Voc	48.50V	48.70V	48.90V	49.10V	49.30V
Current at Max Power, Imax	15.01A	15.07A	15.13A	15.19A	15.25A
Short Circuit Current, Isc	15.89A	15.95A	16.01A	16.07A	16.13A
Module Efficiency	22.4%	22.6%	22.8%	23.0%	23.1%
Operating Temperature (°C)	-40°C ~ +85°C				
Maximum System Voltage	1500 V DC (IEC)				
Maximum Series Fuse Rating	35 A				
Power Tolerance	0, +5Wp				

STC: Irradiance 1000 W/m², Cell Temperature 25°C, AM=1.5
PLSIND reserves the right to adjust the listed parameters without notice.

NMOT	AE13TDXXXTHC16B5				
Maximum Power at NMOT, Wp	462.9W	466.6W	470.4W	474.2W	476.7W
Voltage at Max Power, Vmax	38.00V	38.10V	38.30V	38.50V	38.60V
Open Circuit Voltage, Voc	46.10V	46.30V	46.50V	46.70V	46.90V
Current at Max Power, Imax	12.19A	12.23A	12.28A	12.33A	12.34A
Short Circuit Current, Isc	12.81A	12.86A	12.91A	12.95A	13.00A

NMOT: Irradiance 800 W/m2, ambient temperature 20 °C, AM=1.5, wind speed 1 m/s.
PLSIND reserves the right to adjust the listed parameters without notice.

BIFACIAL GAIN (80±5%)	AE13TDXXXTHC16B5				
5% Power Pmax	635.25W	640.50W	645.75W	651.00W	656.25W
10% Power Pmax	665.50W	671.00W	676.50W	682.00W	687.50W
25% Power Pmax	756.25W	762.50W	768.75W	775.00W	781.25W

• Bifacial gain depends on the power plant design and albedo of installation site
• Power Bifaciality=Pmax(Rear)/Pmax(Front) and Pmax Front are tested under STC Measuring Tolerance: ±3%

Temperature Characteristics

Temperature Coefficient of Pmax (γ)	-0.29 %/°C
Temperature Coefficient of Voc (β)	-0.25%/°C
Temperature Coefficient of Isc(α)	+0.046 %/°C
Nominal Module Operating Temperature (NMOT)	42±2°C

Mechanical Characteristics

Cell Type	N-type TOPCon 182mm X 210mm
No.of Cells	132 (11X6 || 11X6)
Dimensions	2382 X 1134 X 30 mm
Weight	32.5kg
Front Glass	2.0 mm Semi Tempered glass
Rear Cover	2.0 mm Semi Tempered glass
Frame	Anodized aluminium alloy
Junction Box	3 Split, IP68 Rated
Output Cables	4.0 mm² (-) 1400 mm and (+) 1400 mm in length or customized length
Connectors	MC4 Compatible/ MC4-EV02/ TL-CABLE01S/ STP-XC4

Packing Configuration

Container	40'HC	Pieces per pallet	36
Pallets per container	20	Pieces per container	720
Packaging box dimensions	2505x1120x1155 mm	Packaging box weight	1204kg

PLSIND stands for Panasonic Life Solutions India Pvt. Ltd.

Panasonic Life Solutions India Pvt. Ltd.
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Information on how to install and operate this product is available in the installation instruction. All values indicated in this data sheet are subject to change without prior announcement. The specifications may vary slightly. All specifications are in accordance with standard EN 50380. Color differences of the modules relative to the figures as well as discolorations of/in the modules which do not impair their proper functioning are possible and do not constitute a deviation from the specification.