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CHARGE UP THE FUTURE
SOLAR POWER SOLUTIONS

# N-Type TOPCon

## 605-625Wp

132Half-Cell N-TypeTopcon Dual Glass Bifacial Module

**AE13TDXXXTHC16B5**



**23.1%** Maximum Efficiency

**15 YEARS** Product Warranty

**30 YEARS** Performance Warranty

**0~+5W** Positive Power Tolerance

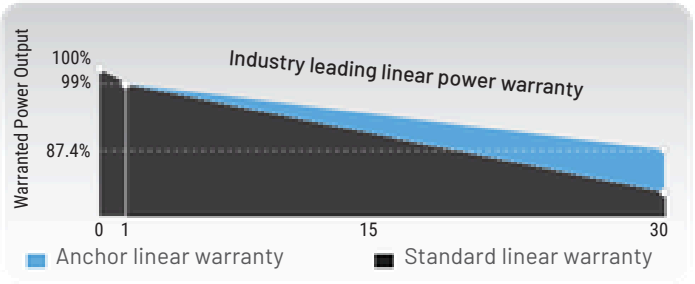
**80% +/- 5%** Bifaciality Factor

- Lowest Temperature Coefficient - 0.29%/°C
- Withstands Harsh Environment
- Apt for Ground Mount and Commercial & Industrial use
- Tested for Wind Load (2400 pascals) and Snow Load (5400 pascals)
- Superior Resistance to effects of PID
- N-Type TOPCon with Zero LID Loss

### Industry-Leading Warrantybasedon Nominal Power

**1%** First Year Degradation

**0.4%** Lowest Annual Degradation




Cer tifications and Standards: IEC

*IEC 61215, IEC 61730, IEC 61701, IEC 62716*

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

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# AE13TDXXXTHC16B5

## ELECTRICAL CHARACTERISTICS

| STC | AE13TDXXXTHC16B5 | | | | |
|---|---|---|---|---|---|
| Nominal Maximum Power (Pmax) | 605W | 610W | 615W | 620W | 625W |
| Optimum Operating Voltage (Vmp) | 40.31V | 40.48V | 40.65V | 40.82V | 40.98V |
| Open Circuit Voltage (Voc) | 48.50V | 48.70V | 48.90V | 49.10V | 49.30V |
| Optimum Operating Current (Imp) | 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% |
| OperatingTemperature ($^0$C) | -40$^0$C ~ +85$^0$C | | | | |
| Maximum System Voltage | 1500 V DC (IEC) | | | | |
| Maximum Series Fuse Rating | 35 A | | | | |
| PowerTolerance | 0, +5Wp | | | | |

STC: Irradiance 1000 W/m$^2$, Cell Temperature 25$^0$C, AM=1.5
# PLSIND reserves the right to adjust the listed parameters without notice.

| NMOT | AE13TDXXXTHC16B5 | | | | |
|---|---|---|---|---|---|
| Nominal Maximum Power (Pmax) | 462.9W | 466.6W | 470.4W | 474.2W | 476.7W |
| Optimum Operating Voltage (Vmp) | 38.00V | 38.10V | 38.30V | 38.50V | 38.60V |
| Open Circuit Voltage (Voc) | 46.10V | 46.30V | 46.50V | 46.70V | 46.90V |
| Optimum Operating Current (Imp) | 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/m$^2$, ambient temperature 20 $^0$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 |
| 15% 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

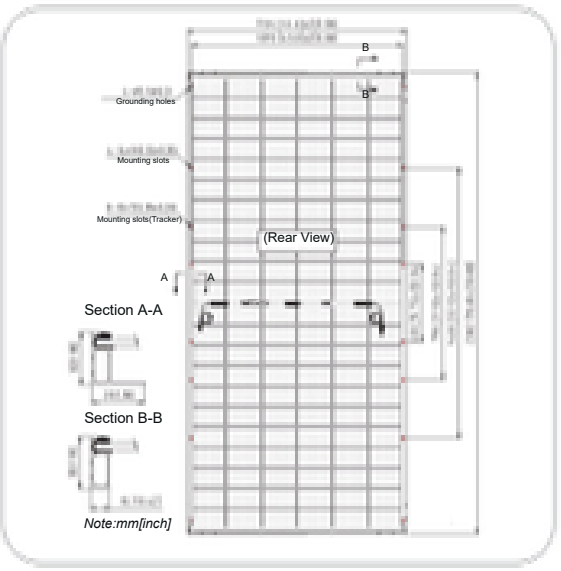
| | |
|---|---|
| Temperature Coefficient of Pmax(γ) | -0.29 %/°C |
| Temperature Coefficient of Voc(β) | -0.25 %/°C |
| Temperature Coefficient of Isc(α) | +0.046 %/°C |
| Nominal Module Operating Temperature (NMOT) | 42±2°C |

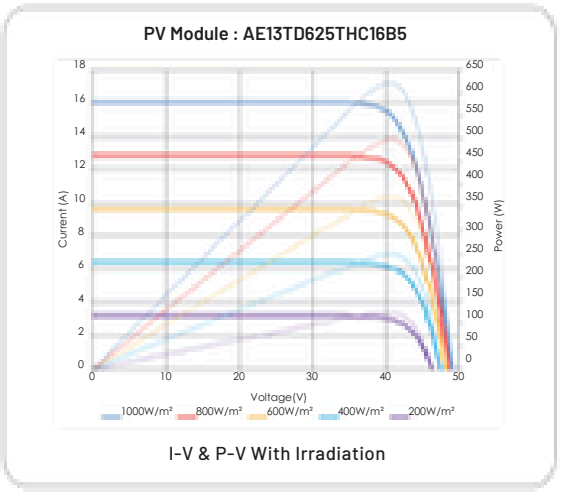
## MECHANICAL CHARACTERISTICS

| | |
|---|---|
| Cell Type | N-typeTOPCon 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 mm$^2$<br>(-) 1400 mm and (+) 1400 mm in length or customized length |
| Connectors | MC4 Compatible/ MC4-EV02/ TL-CABLE01S/ STP-XC4 |

## PACKAGING CONFIGURATION

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



I-V & P-V With Irradiation

# PLSIND stands for 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.