

N-Type TOPCon

490-510Wp

108 Half-Cell N-Type Topcon Dual
Glass All Black Bifacial Module
AE10TDXXXUHC16B6



22.9%

Maximum Efficiency

25 YEARS

Product Warranty

30 YEARS

Performance Warranty

0~+5W

Positive Power Tolerance

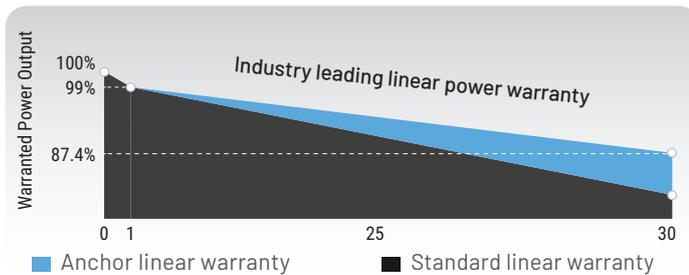
80% +/- 5%

Bifaciality Factor

Industry-Leading Warranty based on Nominal Power

1% First Year Degradation

0.4% Lowest Annual Degradation



- Lowest Temperature Coefficient -0.29%/°C
- Withstands Harsh Environment
- Apt for Residential 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

Certifications and Standards:



IEC 61215, IEC 61730, IEC 61701, IEC 62716



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

AE10TDXXXUHC16B6

ELECTRICAL CHARACTERISTICS

STC	AE10TDXXXUHC16B6				
Nominal Maximum Power (Pmax)	490W	495W	500W	505W	510W
Optimum Operating Voltage (Vmp)	32.90V	33.10V	33.30V	33.50V	33.70V
Open Circuit Voltage (Voc)	39.70V	39.91V	40.12V	40.33V	40.54V
Optimum Operating Current (Imp)	14.89A	14.95A	15.02A	15.07A	15.13A
Short Circuit Current (Isc)	15.79A	15.83A	15.87A	15.91A	15.95A
Module Efficiency	22%	22.3%	22.5%	22.7%	22.9%
Operating Temperature (°C)	-40 ⁰ C ~ +70 ⁰ 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.

BIFACIAL GAIN (80±5%)	AE10TDXXXUHC16B6				
5% Power Pmax	514.5W	519.75W	525W	530.25W	535.5W
15% Power Pmax	563.5W	569.25W	575W	580.75W	586.5W
25% Power Pmax	612.5W	618.75W	625W	631.25W	637.5W

• 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

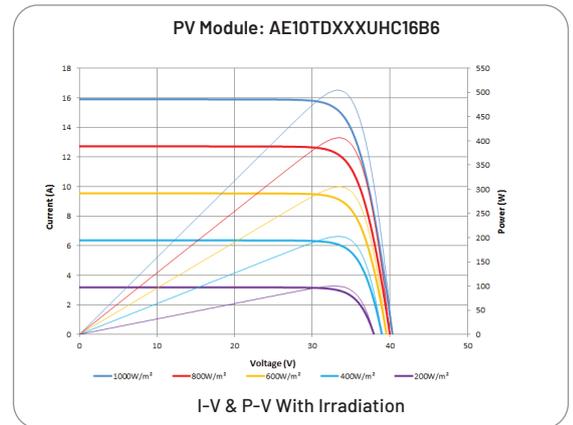
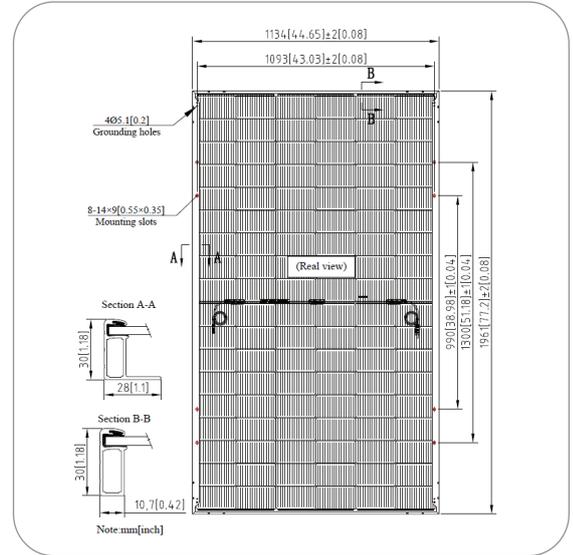
Temperature Coefficient of Pmax(γ)	-0.29 %/°C
Temperature Coefficient of Voc(β)	-0.25 %/°C
Temperature Coefficient of Isc(α)	0.046 %/°C

MECHANICAL CHARACTERISTICS

Cell Type	N-type Topcon 182mm*210mm
No.of Cells	108(9x6 9x6)
Dimensions	1961 × 1134 × 30 mm
Weight	23.5 kg
Front Glass	1.6 mm semi-tempered glass
Rear Cover	1.6 mm semi-tempered glass
Frame	Anodized aluminium alloy
Junction Box	3 Split, IP68 Rated
Output Cables	4.0 mm ² (-) 1400 mm and (+) 1400 mm in length or customized length
Connectors	MC4 - Original

PACKAGING CONFIGURATION

Container	40' HC	Modules per pallet	36
Pallets per container	24	Modules per container	864
Packaging box dimensions	1987x1120x1255 mm	Package weight	893 kg



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.