

# 470-495Watt

## 132 HALF-CELL MONO PERC MODULE

• AE13HXXXTHC10B

### Special Cell Design



10B technology decreases the distance between bus bars and finger grid line which is benefit to power increase. Half-cell aims to eliminate the cell gap to increase module efficiency.

### IP68 Rated Junction Box

**IP68**

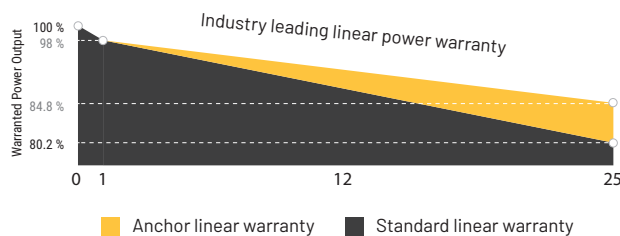
The IP 68 rated junction box ensures an outstanding waterproofing, supports installation in all orientations with less stress on the cables. Highly reliable performance with low resistance connectors ensures maximum output for higher energy production.

### 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 ISO17025
- Regular independently checked production process from international accredited institute/company
- Tested for harsh environments
- Long-term reliability tests
- 2 x 100% EL inspection ensuring defect-free modules

### Industry-leading Warranty based on nominal power

- 98% in the first year; thereafter, for years two (2) through twenty five (25), 0.55% maximum decrease from MODULE'S nominal power output per year, ending with the 84.8% in the 25<sup>th</sup> year after the defined WARRANTY STARTING DATE.
- Product Warranty is of 12 Years\*\*
- 25 year linear performance warranty



High Efficiency

### High module conversion efficiency

Module efficiency up to 20.86% achieved through advanced cell technology and manufacturing process



2%

### 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



Weak light

### 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



2400Pa  
5400Pa

### Extended wind and snow load tests

Module certified to withstand extreme wind (2400 Pascal) and snow loads (5400 Pascal) \*



Harsh environment

### Withstanding Harsh Environment

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

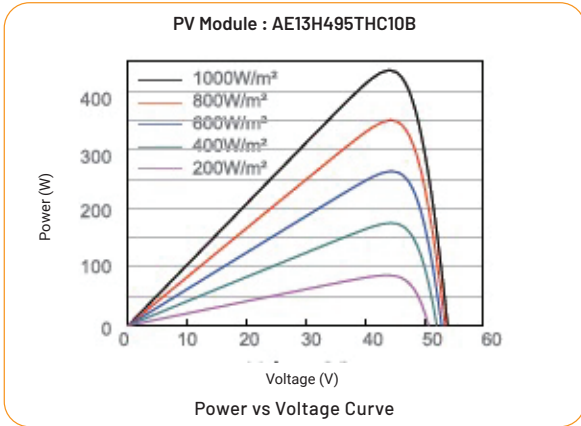
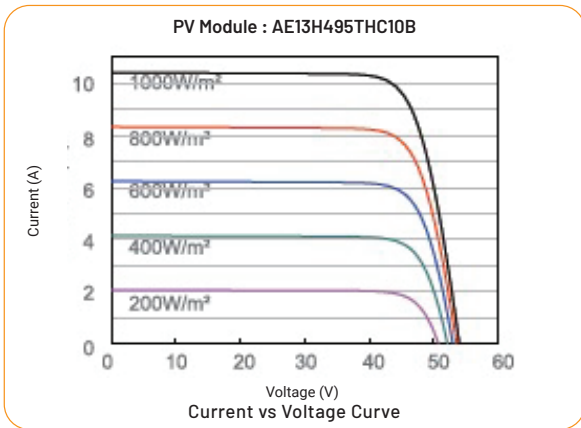
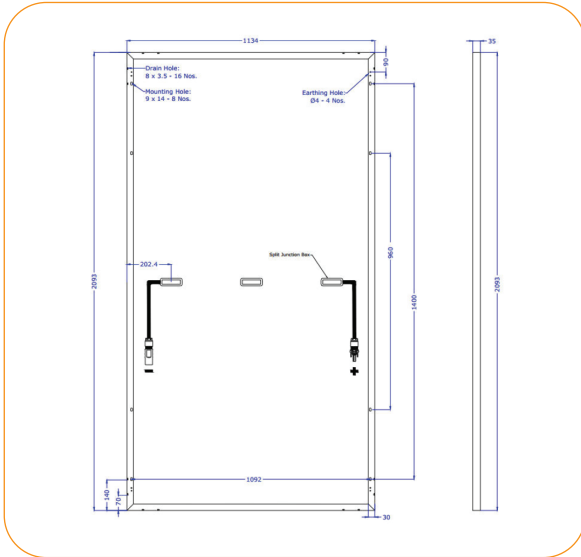


Certifications and standards:  
IEC 61215, IEC 61730, IEC 61701, IEC 62804,  
IEC 62716, IEC 60068



Also Available  
in DCR

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



**Dealer Information**

• AE13HXXXTHC10B

**Electrical Characteristics**

STC	AE13HxxxTHC10B					
Wattage, Wp	470W	475W	480W	485W	490W	495W
Voltage at Max Power, Vmax	38.3V	38.34V	38.38V	38.42V	38.46V	38.50V
Open Circuit Voltage, Voc	45.16V	45.2V	45.24V	45.28V	45.32V	45.36V
Current at Max Power, Imax	12.27A	12.39A	12.51A	12.62A	12.74A	12.86A
Short Circuit Current, Isc	13.07A	13.19A	13.32A	13.44A	13.57A	13.69A
Module Efficiency	19.80%	20.01%	20.22%	20.43%	20.64%	20.86%
Operating Temperature (°C)	-40°C ~ +85°C					
Maximum System Voltage	1500 V DC (IEC)					
Maximum Series Fuse Rating	25 A					
Power Tolerance	-0, +5Wp					

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

NOCT	AE13HxxxTHC10B					
Maximum Power at NOCT, Wp	346W	349W	353W	357W	360W	364W
Voltage at Max Power, Vmax	35.54V	35.58V	35.61V	35.65V	35.69V	35.72V
Open Circuit Voltage, Voc	42.20V	42.23V	42.27V	42.31V	42.35V	42.38V
Current at Max Power, Imax	9.73A	9.82A	9.91A	10.01A	10.10A	10.19A
Short Circuit Current, Isc	10.42A	10.52A	10.62A	10.72A	10.82A	10.92A

NOCT: Irradiance 800 W/m<sup>2</sup>, ambient temperature 20 °C, AM=1.5, wind speed 1 m/s.  
# PLSIND reserves the right to adjust the listed parameters without notice.

**Temperature Characteristics**

Temperature Coefficient of Pmax(γ)	-0.35 %/°C
Temperature Coefficient of Voc(β)	-0.30 %/°C
Temperature Coefficient of Isc(α)	0.06 %/°C
Nominal Module Operating Temperature (NMOT)	45±2°C

**Mechanical Characteristics**

Cell Type	Mono PERC-crystalline 91mm x 182mm
No. of Cells	132 (11x6    11x6)
Dimensions	2093 x 1134 x 35 mm
Weight	27 kg
Front Glass	3.2mm, High Transmission, Low Iron, Tempered glass
Frame	Anodized aluminium alloy
Junction Box	3 Split, IP68 Rated
Output Cables	4.0 mm <sup>2</sup> (-) 400 mm and (+) 400 mm in Length
Connectors	MC4 Compatible

**Packing Configuration**

Container	20' GP	40' GP
Pieces per pallet	31	31
Pallets per container	5	22
Pieces per container	155	682

# PLSIND stands for Panasonic Life Solutions India Pvt. Ltd.

**Panasonic Life Solutions India Pvt. Ltd.**

Registered Office : 12th Floor, Ambience Tower, Ambience Island, NH-48, Gurugram, Haryana - 122 002.

In case of consumer complaints contact customer care executive: 3rd Floor, B Wing, I-Think Techno Campus, Pokhran Road No 2, Thane (west) - 400607, Maharashtra.

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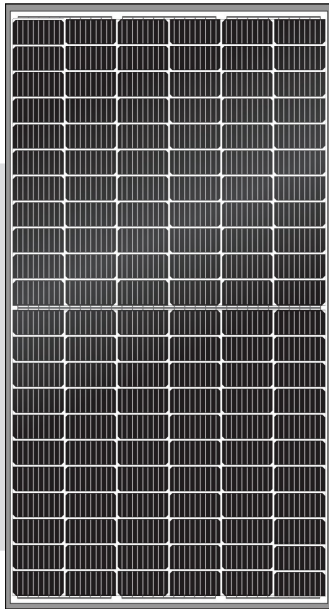


by **Panasonic**

# 470-495Watt

132 HALF-CELL MONO PERC MODULE

• AE13HXXTHC10B



### ALMM Enlisted Products

- PE - 470 HM
- PE- 475 HM
- PE - 480 HM
- PE- 485 HM
- PE - 490 HM
- PE- 495 HM

### Equivalent Products

- AE13H470THC10B
- AE13H475THC10B
- AE13H480THC10B
- AE13H485THC10B
- AE13H490THC10B
- AE13H495THC10B

## When Performance Meets Reliability!



Strict Adherence To Japanese Quality Standards



High Performance & Best in Class Products



Glow Wire & Smoke Emission Test



Warehouses, Logistics Support Across India



PLSIND Assured Warranty 12 Years on Product 25 Years on Performance

### ALMM Declaration

- The Anchor Products mentioned above are manufactured by Premier Energies Photovoltaic Pvt. Ltd. at following address covered under the ALMM list: Plot No-8/B/1 & 8/B/2, SY, No. 62 P 63 P and 88 P, ECity, Village Raviryala, Maheshwaram Mandal, Ranga Reddy, Telangana- 501359, India.
- Premier Energies Products mentioned above are both BIS approved and ALMM enlisted.
- Anchor Products mentioned above are co-branded version of Premier Energies products.
- Anchor Products mentioned above are BIS Approved under the R-Number-63002461.
- BIS accredited testing lab has verified that Anchor Products are same as Premier Energies Products and the same can be verified via the test report released by the lab.

### Marketed by:

Panasonic Life Solutions India Pvt. Ltd., 3rd Floor, B Wing, I-Think Techno Campus, Pokhran Road No 2, Thane (west)-400607, India. Tel: +91 22 4222 8888 Fax: +91 22 4222 8884. Email: solar@in.panasonic.com | www.lsin.panasonic.com

### Manufactured by:

Premier Energies Photovoltaic Pvt. Ltd., Plot No-8/B/1 & 8/B/2, SY, No. 62 P 63 P and 88 P, ECity, Village Raviryala, Maheshwaram Mandal, Ranga Reddy, Telangana- 501359, India.



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