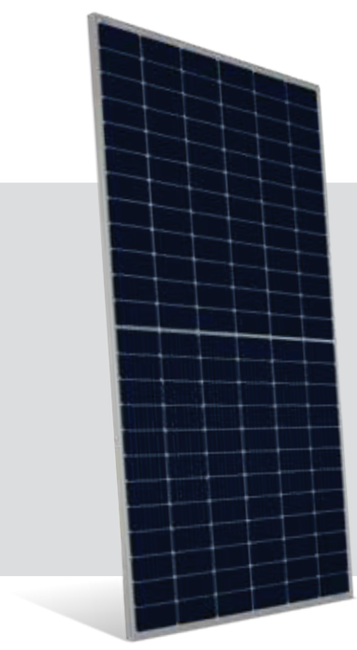
ANCHOR
by Panasonic

530-550Watt

144 HALF-CELL MONO PERC MODULE

• AE14HXXXVHC10B



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

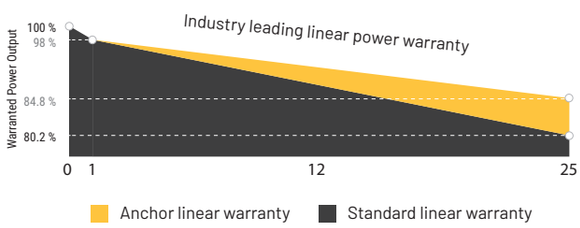
The IP 68 rated junction box ensures an outstanding waterproofing, supports installation in all orientations with less stress on the cables. Highly reliable performance with low resistance connectors ensures maximum output for higher energy production.

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 × 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 25th year after the defined WARRANTY STARTING DATE.
- Product Warranty is of 12 Years**
- 25 year linear performance warranty



High module conversion efficiency
Module efficiency up to 21.28 % 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

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

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

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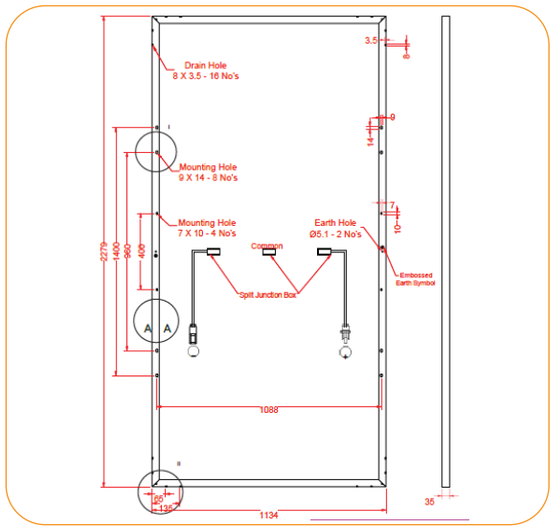
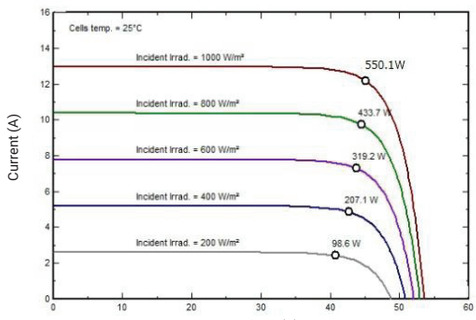
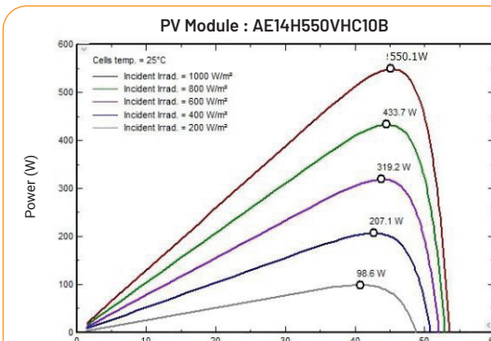




Current vs Voltage Curve



Power vs Voltage Curve

Dealer Information

• AE14HXXXVHC10B

Electrical Characteristics

STC	AE14HxxxVHC10B				
Wattage, Wp	530W	535W	540W	545W	550W
Voltage at Max Power, Vmax	41.84V	41.88V	41.92V	41.96V	41.95V
Open Circuit Voltage, Voc	49.32V	49.36V	49.40V	49.44V	49.80V
Current at Max Power, Imax	12.67A	12.77A	12.88A	12.99A	13.12A
Short Circuit Current, Isc	13.49A	13.60A	13.72A	13.83A	13.98A
Module Efficiency	20.51%	20.70%	20.89%	21.09%	21.28%
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/m², Cell Temperature 25°C, AM=1.5
PLSIND reserves the right to adjust the listed parameters without notice.

NOCT	AE14HxxxVHC10B				
Maximum Power at NOCT, Wp	390W	394W	397W	401W	405W
Voltage at Max Power, Vmax	38.78V	38.81V	38.85V	38.89V	38.93V
Open Circuit Voltage, Voc	46.38V	46.42V	46.46V	46.49V	46.53V
Current at Max Power, Imax	10.05A	10.14A	10.22A	10.31A	10.39A
Short Circuit Current, Isc	10.77A	10.86A	10.95A	11.04A	11.13A

NOCT: 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.

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 91mm * 182mm
No.of Cells	144 (12x6 || 12x6)
Dimensions	2279 × 1134 × 35 mm
Weight	29 kg
Front Glass	3.2mm, High Transmission, Low Iron, Tempered glass
Frame	Anodized aluminium alloy
Junction Box	3 Split, IP68 Rated
Output Cables	4.0mm² Portrait: (-)350 mm and (+) 160 mm in Length Landscape: (-)1400 mm and (+)1400 mm in Length or Customized Length
Connectors	MC4 Compatible

Packing Configuration

Container	20' GP	40' GP
Pieces per pallet	31	31
Pallets per container	8	18
Pieces per container	248	558

PLSIND stands for Panasonic Life Solutions India Pvt. Ltd.

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