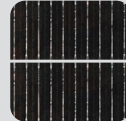


530-550Watt

144 HALF-CELL MONO PERC MODULE

• AE14HXXXVHC10B

Special Cell Design



MBB 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

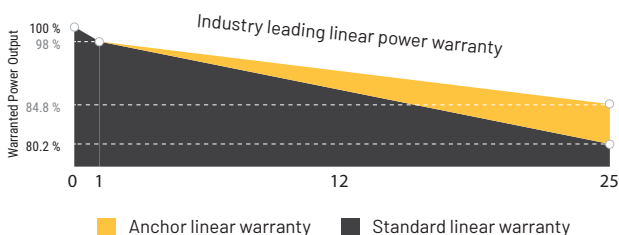
The IP 68 rated junction box ensures an outstanding waterproofing, supports installation in all orientations with less stress on the cables. Highly reliable performance with low resistance connectors ensures maximum output for higher energy production.

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 (IEC 61701, IEC 62716)
- 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 21.3 % 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 62716, IEC 61701



Electrical Characteristics

| STC | AE14HxxxVHC10B | | | | |
|----------------------------|-----------------|--------|--------|--------|--------|
| Wattage, Wp | 550W | 545W | 540W | 535W | 530W |
| Voltage at Max Power, Vmax | 42.05V | 41.87V | 41.75V | 41.57V | 41.39V |
| Open Circuit Voltage, Voc | 49.88V | 49.69V | 49.54V | 49.39V | 49.24V |
| Current at Max Power, Imax | 13.08A | 13.02A | 12.94A | 12.87A | 12.81A |
| Short Circuit Current, Isc | 14.01A | 13.96A | 13.89A | 13.83A | 13.76A |
| Module Efficiency | 21.3% | 21.1% | 20.9% | 20.7% | 20.5% |
| Operating Temperature (°C) | -40°C ~ +85°C | | | | |
| Maximum System Voltage | 1500 V DC (IEC) | | | | |
| Maximum Series Fuse Rating | 25 A | | | | |
| Power Tolerance | 0 to +5Wp | | | | |

STC: Irradiance 1000 W/m², Module temperature 25 °C, AM=1.5
 Tolerance of Wp is within +/- 3% ;
 # PLSIND reserves the right to adjust the listed parameters without notice.

| NMOT | AE14HxxxVHC10B | | | | |
|----------------------------|----------------|--------|--------|--------|--------|
| Maximum Power at NMOT, Wp | 415.0W | 411.5W | 408.0W | 404.3W | 400.6W |
| Voltage at Max Power, Vmax | 38.9V | 38.7V | 38.6V | 38.4V | 38.2V |
| Open Circuit Voltage, Voc | 46.9V | 46.7V | 46.5V | 46.4V | 46.3V |
| Current at Max Power, Imax | 10.67A | 10.63A | 10.58A | 10.53A | 10.47A |
| Short Circuit Current, Isc | 11.22A | 11.18A | 11.13A | 11.08A | 11.02A |

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.

Temperature Characteristics

| | |
|---|-------------|
| Temperature Coefficient of Pmax(γ) | -0.36 %/°C |
| Temperature Coefficient of Voc(β) | -0.304 %/°C |
| Temperature Coefficient of Isc(α) | +0.050 %/°C |
| Nominal Operating Cell Temperature (NOCT) | 42±2°C |

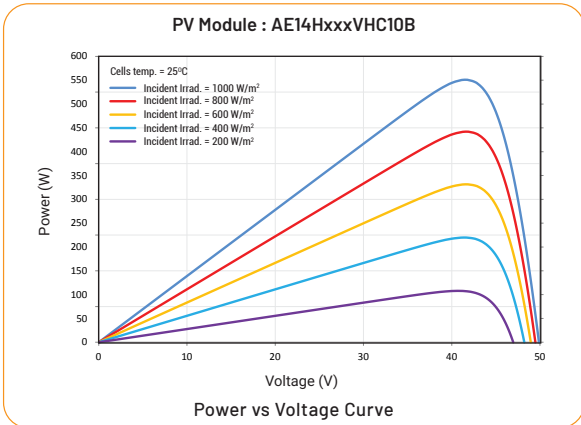
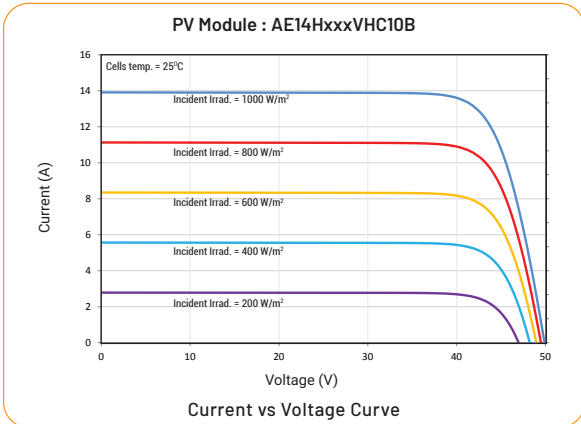
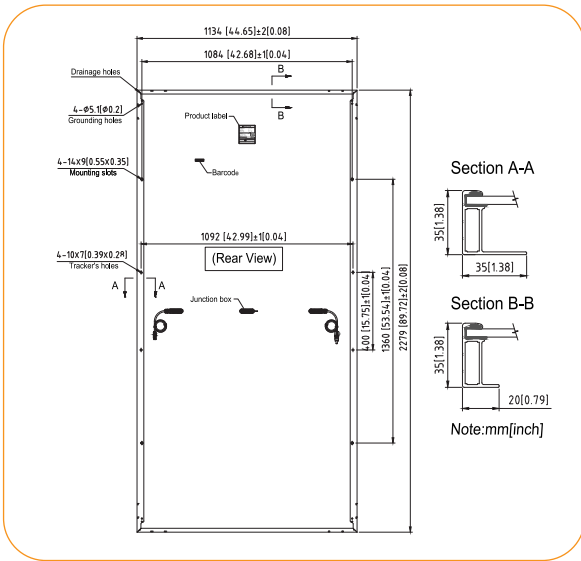
Mechanical Characteristics

| | |
|---------------|--|
| Cell Type | Monocrystalline Silicon 182 mm |
| No. of Cells | 144 (6 × 24) |
| Dimensions | 2279 × 1134 × 35 mm |
| Weight | 29.1 kg |
| Front Glass | 3.2mm |
| Frame | Anodized aluminum alloy |
| Junction Box | IP68 rated (3 bypass diodes) |
| Output Cables | 4mm ² Portrait : (-) 350 mm and (+) 160 mm in length Landscape : (-) 1 400 mm and (+) 1400 mm in length or customized length |
| Connectors | MC4 EVO2, Cable 01S |

Packing Configuration

| | | | |
|--------------------------|-------------------|----------------------|--------|
| Container | 40' HC | Pieces per pallet | 31 |
| Pallets per container | 20 | Pieces per container | 620 |
| Packaging box dimensions | 2310×1130×1245 mm | Packaging box weight | 965 kg |

PLSIND stands for Panasonic Life Solutions India Pvt. Ltd.



Dealer Information

Panasonic Solutions (Thailand) Co., Ltd.

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