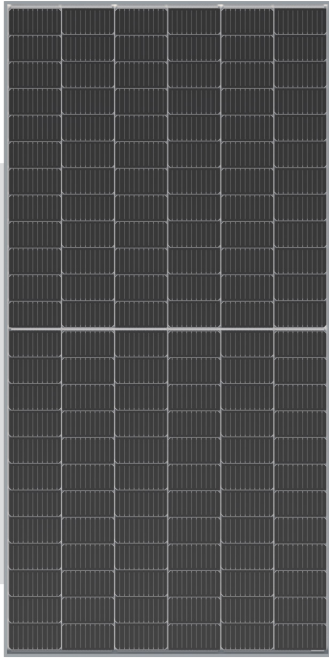


# 540-560Watt

## 144 HALF-CELL MONO PERC MODULE

• AE14HXXXVHC10B



Silver Frame  
With White Backsheet



Aesthetics Meets  
Performance



Apt For Commercial and  
Industrial Application

### Special Cell Design



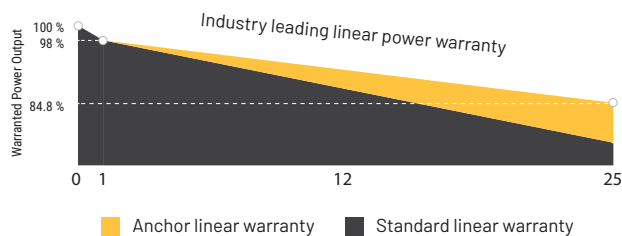
10 BB design decreases the distance between bus bars and finger grid line for power increase. Half-cell reduces internal losses to increase module efficiency.

### 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 ISO 45001
- Regular independently checked production process from international accredited institute/company
- Tested for harsh environments ( IEC 61701, IEC 62716)
- Long-term reliability tests
- 2x 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 21.7 % 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

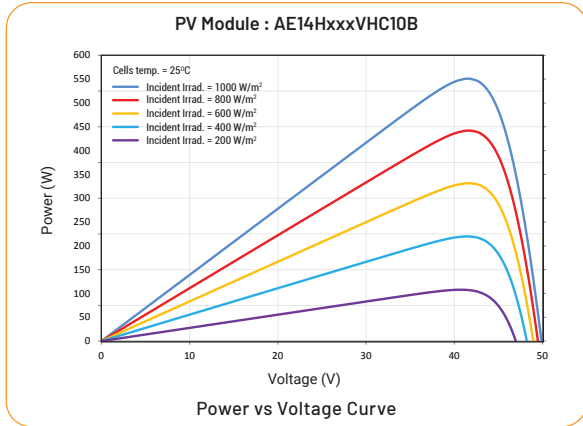
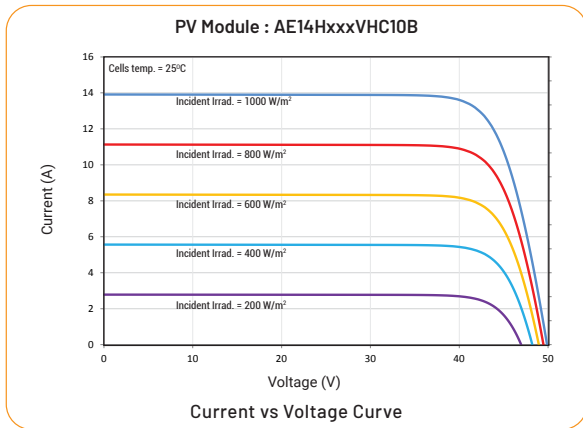
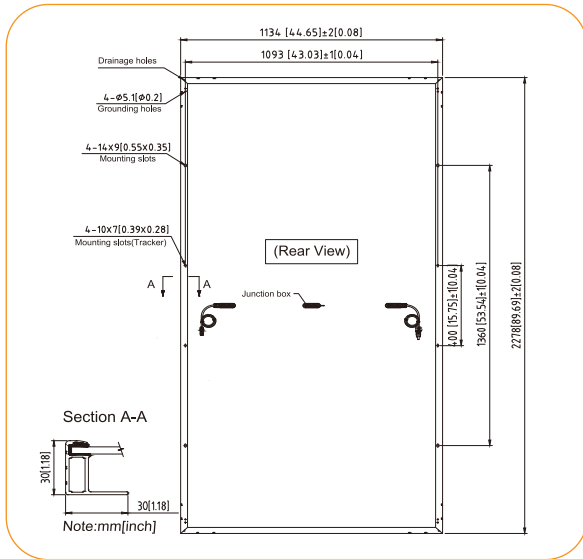
**Extended wind and snow load tests**  
Module certified to withstand extreme wind (2400 Pascal) and snow loads (5400 Pascal) \*

**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





**Dealer Information**

• AE14HXXXVHC10B

**Electrical Characteristics**

STC	AE14HxxxVHC10B				
Wattage, Wp	560W	555W	550W	545W	540W
Voltage at Max Power, Vmax	42.40V	42.24V	42.05V	41.87V	41.75V
Open Circuit Voltage, Voc	50.23V	50.07V	49.88V	49.69V	49.54V
Current at Max Power, Imax	13.21A	13.14A	13.08A	13.02A	12.94A
Short Circuit Current, Isc	14.14A	14.07A	14.01A	13.96A	13.89A
Module Efficiency	21.7%	21.5%	21.3%	21.1%	20.9%
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/m<sup>2</sup>, Cell Temperature 25°C, AM=1.5  
# PLSIND reserves the right to adjust the listed parameters without notice.

NMOT	AE14HxxxVHC10B				
Maximum Power at NMOT, Wp	425.2W	421.4 W	417.7 W	414.2 W	410.5 W
Voltage at Max Power, Vmax	39.2 V	39.0 V	38.9 V	38.7 V	38.5 V
Open Circuit Voltage, Voc	47.4 V	47.2 V	47.0 V	46.9 V	46.7 V
Current at Max Power, Imax	10.85 A	10.80 A	10.75 A	10.71 A	10.65 A
Short Circuit Current, Isc	11.41 A	11.35 A	11.30 A	11.26 A	11.21 A

NMOT: 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)	-0.34 %/°C
Temperature Coefficient of Voc(β)	-0.26 %/°C
Temperature Coefficient of Isc(α)	+0.050 %/°C
Nominal Module Operating Temperature (NMOT)	42±2°C

**Mechanical Characteristics**

Cell Type	Monocrystalline Silicon 182 mm
No. of Cells	144 (6 × 24)
Dimensions	2278 x 1134 x 30 mm
Weight	27.5 kg
Front Glass	3.2mm
Frame	Anodized aluminum alloy
Junction Box	IP68 rated (3 bypass diodes)
Output Cables	4mm <sup>2</sup> (-)1400 mm and (+) 1400 mm in length or customized length
Connectors	MC4 EVO2, Cable 01S

**Packing Configuration**

Container	40' HC	Pieces per pallet	36
Pallets per container	20	Pieces per container	720
Packaging box dimensions	2310×1120×1255 mm	Packaging box weight	1040 kg

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

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