

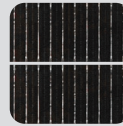


# 540-550Watt

## 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**

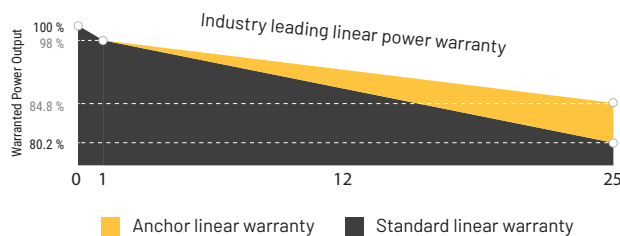
The IP 68 rated junction box ensures an outstanding waterproofing, supports installation in all orientations with less stress on the cables. Highly reliable performance with low resistance connectors ensures maximum output for higher energy production.

### 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 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 21.32 % 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

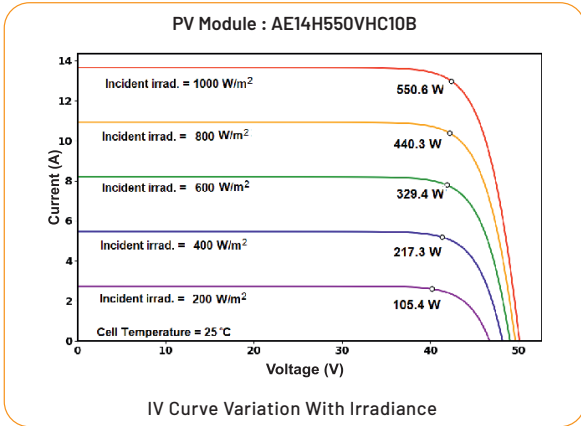
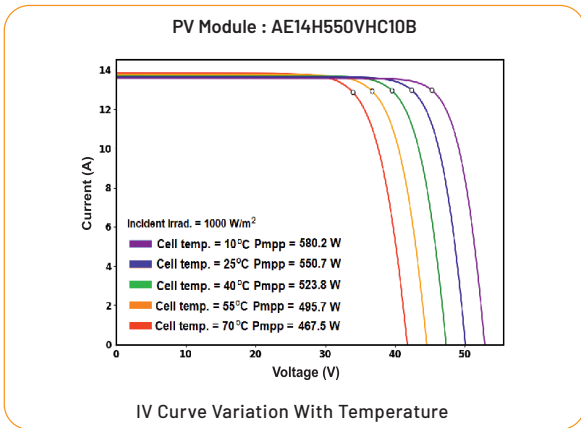
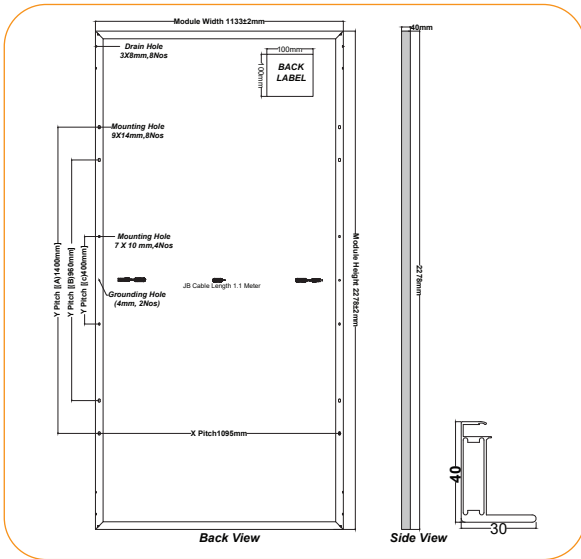
Reliable quality leads to better sustainability even in harsh environment like desert and coastal area



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



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



**Dealer Information**

• **AE14HXXXVHC10B**

**Electrical Characteristics**

STC	AE14HxxxVHC10B		
Wattage, Wp	540W	545W	550W
Voltage at Max Power, V <sub>max</sub>	41.86V	42.01V	42.14V
Open Circuit Voltage, Voc	49.78V	49.91V	50.06V
Current at Max Power, I <sub>max</sub>	12.91A	12.98A	13.07A
Short Circuit Current, I <sub>sc</sub>	13.53A	13.59A	13.65A
Module Efficiency	20.94%	21.13%	21.32%
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	AE14HxxxVHC10B		
Maximum Power at NOCT, Wp	400W	403W	407W
Voltage at Max Power, V <sub>max</sub>	38.54V	38.68V	38.80V
Open Circuit Voltage, Voc	46.82V	46.94V	47.09V
Current at Max Power, I <sub>max</sub>	10.37A	10.43A	10.49A
Short Circuit Current, I <sub>sc</sub>	10.96A	11.01A	11.06A

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 P <sub>max</sub> (γ)	-0.3164 %/°C
Temperature Coefficient of Voc(β)	-0.2355 %/°C
Temperature Coefficient of I <sub>sc</sub> (α)	0.0271 %/°C
Nominal Module Operating Temperature (NMOT)	45±2°C

**Mechanical Characteristics**

Cell Type	Mono PERC 91mm * 182mm
No. of Cells	144 (12x6    12x6)
Dimensions	2278 x 1133 x 40 mm
Weight	28.6 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	32' GP
Pieces per pallet	27
Pallets per container	16
Pieces per container	432

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

**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.