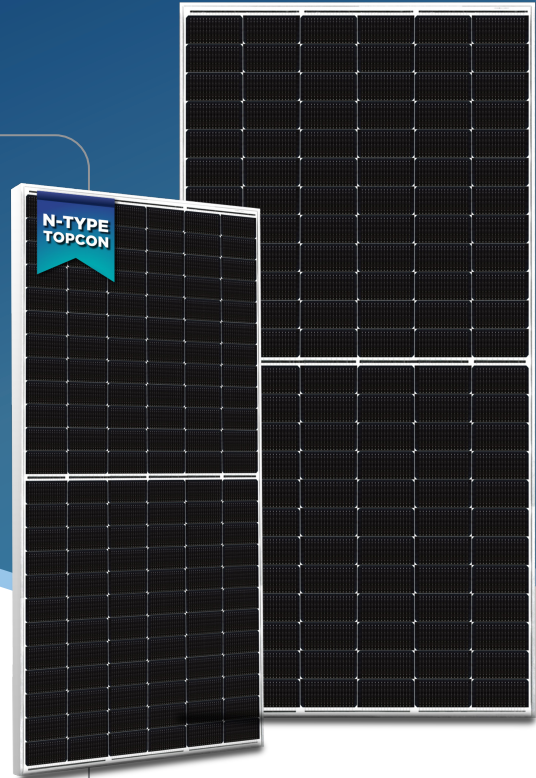


N-Type TOPCon

570-585W_p

144 Half Cell Dual Glass Bifacial Module
AE14TXXXVHC16B5R



22.66%
Maximum
Efficiency

15 YEARS
Product
Warranty

30 YEARS
Performance
Warranty

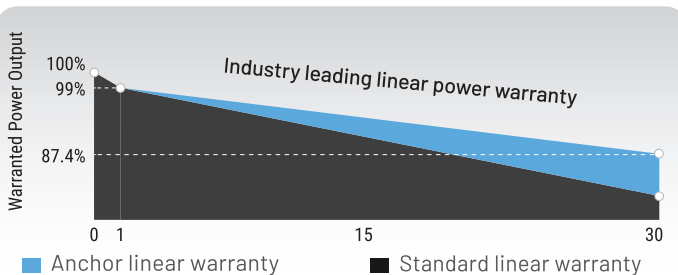
0~+5W
Positive Power
Tolerance

80% +/- 10%
Bifaciality
Factor

Industry-Leading Warranty based on Nominal Power

1% First Year
Degradation

0.4% Lowest Annual
Degradation



- Lowest Temperature Coefficient - 0.2909%/°C
- Withstands Harsh Environment
- Apt for Ground Mount and Commercial & Industrial use
- Tested for Wind Load (2400 pascals) and Snow Load (5400 pascals)
- Superior Resistance to effects of PID
- N-Type TOPCon with Zero LID Loss

Quality Test and Certification



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

AE14TXXXVHC16B5R

ELECTRICAL CHARACTERISTICS

STC	AE14TXXXVHC16B5R			
Nominal Maximum Power (Pmax)	570 W	575 W	580 W	585 W
Optimum Operating Voltage (Vmp)	44.37 V	44.56 V	44.75 V	44.94 V
Open Circuit Voltage (Voc)	52.39 V	52.60 V	52.80 V	53.01 V
Optimum Operating Current (Imp)	12.85 A	12.91 A	12.97 A	13.02 A
Short Circuit Current (Isc)	13.54 A	13.59 A	13.65 A	13.71 A
Module Efficiency	22.08%	22.27%	22.47%	22.66%
Operating Temperature (°C)	-40°C ~ +85°C			
Maximum System Voltage	1500 V DC (IEC)			
Maximum Series Fuse Rating	30 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	AE14TXXXVHC16B5R			
Nominal Maximum Power (Pmax)	427 W	431 W	435 W	439 W
Optimum Operating Voltage (Vmp)	41.67 V	41.85 V	42.03 V	42.2 V
Open Circuit Voltage (Voc)	49.40 V	49.59 V	49.79 V	49.98 V
Optimum Operating Current (Imp)	10.26 A	10.31 A	10.35 A	10.41 A
Short Circuit Current (Isc)	10.91 A	10.95 A	11.00 A	11.04 A

NOCT: Irradiance 800 W/m², ambient temperature 20°C, AM=1.5, wind speed 1m/s.
PLSIND reserves the right to adjust the listed parameters without notice.

BIFACIAL GAIN (80±10%)	AE14TXXXVHC16B5R			
5% Power Pmax	598.5W	603.7W	609W	614.2W
10% Power Pmax	627W	632.5W	638W	643.5W
25% Power Pmax	712.5W	718.7W	725W	731.2W

• Bifacial gain depends on the power plant design and albedo of installation site
• Power Bifaciality=Pmax(Rear)/Pmax(Front) and Pmax Front are tested under STC Measuring Tolerance: ±3%

TEMPERATURE CHARACTERISTICS

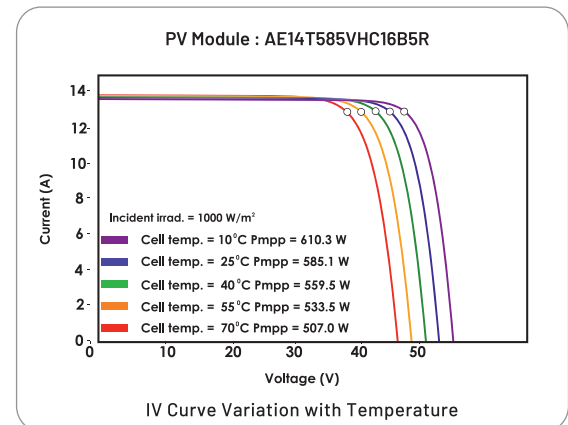
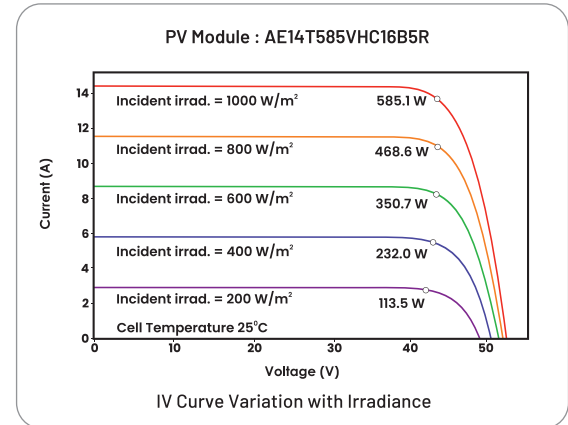
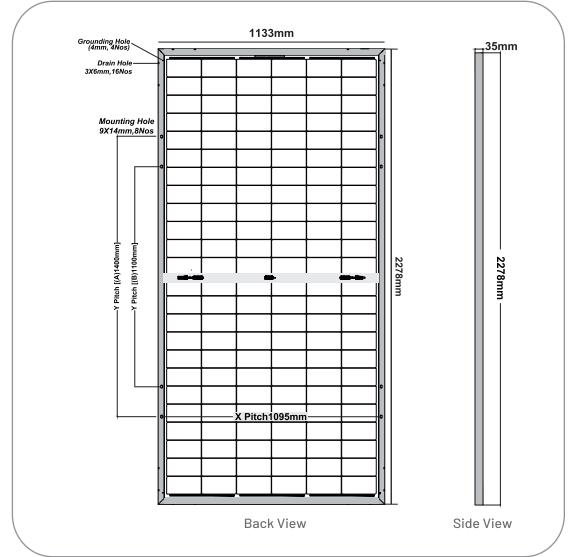
Temperature Coefficient of Pmax(γ)	-0.2909 %/°C
Temperature Coefficient of Voc(β)	-0.2261 %/°C
Temperature Coefficient of Isc(α)	0.0265 %/°C

MECHANICAL CHARACTERISTICS

Cell Type	N-type TOPCon 91mm * 182mm
No. of Cells	144 (12x6 12x6)
Dimensions	2278 × 1133 × 35 mm
Weight	33 kg
Front Glass	2.0 mm Semi-tempered glass
Rear Cover	2.0 mm Semi-tempered glass
Frame	Anodized aluminium alloy
Junction Box	3 Split, IP68 Rated
Output Cables	4.0 mm ² (-) 300 mm and (+) 300 mm in Length
Connectors	MC4 Compatible

PACKAGING CONFIGURATION

Container	40FT
Pieces per pallet	31
Pallets per container	20
Pieces per container	620



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.