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Solar Panel Guide

Specification Data Sheet

Learn more at energypal.com/best-solar-panels-for-homes

300-295-290 Watt

PERC - MONOCRYSTALLINE SOLAR MODULE

AE6H300WB5B • AE6H295WB5B • AE6H290WB5B



Features



High module conversion efficiency

Module efficiency up to 18.3% achieved through advanced cell technology and manufacturing capabilities



High PID resistant

Advanced cell technology and qualified materials lead to high resistance to PID



Positive tolerance

Positive tolerance of up to 5W delivers higher output reliability



Anchor current sorting process

System output maximized by reducing mismatch losses up to 2% with modules sorted & packaged by amperage



Extended wind and snow load tests

Module certified to withstand extreme wind (3800 Pascal) and snow loads (5400 Pascal) *



Withstanding harsh environment

Reliable quality leads to a better sustainability even in harsh environment like desert, farm and coastline



DIN EN 61215 (VDE 0126 - 31)
DIN EN 61730 - 1 (VDE 0126 Teil)
DIN EN 61730 - 2 (VDE 0126 30-1 - 30-2)

Certifications and standards:

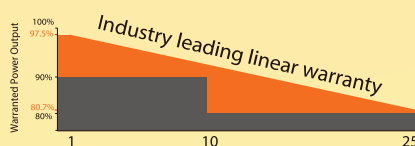
IEC 61215, IEC 61730
IEC 62804 | IEC 62716 | IEC 61701



Trust Anchor to Deliver Reliable Performance Over Time

- World-class manufacturer of crystalline silicon photovoltaic modules
- Unrivalled manufacturing capacity and world-class technology
- Rigorous quality control meeting the highest international standards: ISO 9001: 2008, ISO 14001: 2004 and ISO 17025: 2005
- Regular independently checked production process from international accredited institute/company
- Tested for harsh environments (salt mist, ammonia corrosion and sand blowing testing: IEC 61701, IEC 62716, DIN EN 60068-2-68)***
- Long-term reliability tests
- 2 x 100% EL inspection ensuring defect-free modules

Industry-leading Warranty based on nominal power



- 97.5% in the first year, thereafter, for years two (2) through twenty-five (25), 0.7% maximum decrease from MODULE's nominal power output per year, ending with the 80.7% in the 25th year after the defined WARRANTY STARTING DATE.****
- 12-year product warranty
- 25-year linear performance warranty



Advanced PERC Technology

The cell uses back surface passivation and local BSF technology, which can improve cell efficiency by a large margin.



IP68 Rated Junction Box

The Anchor IP68 rated junction box ensures an outstanding waterproof level, supports installations in all orientations and reduces stress on the cables. High reliable performance, low resistance connectors ensure maximum output for the highest energy production.

* Please refer to Anchor Standard Module Installation Manual for details. **WEEE only for EU market.

*** Please refer to Anchor Product Near-coast Installation Manual for details. **** Please refer to Anchor Product Warranty for details.

Electrical Characteristics

STC	AE6H300 WB5B	AE6H295 WB5B	AE6H290 WB5B
Maximum Power at STC (Pmax)	300 W	295 W	290 W
Optimum Operating Voltage (Vmp)	32.6 V	32.2 V	31.7 V
Optimum Operating Current (Imp)	9.21 A	9.17 A	9.15 A
Open Circuit Voltage (Voc)	39.9 V	39.8 V	39.8 V
Short Circuit Current (Isc)	9.65 A	9.59 A	9.55 A
Module Efficiency	18.3%	18.0%	17.7%
Operating Module Temperature	-40 °C to +85 °C		
Maximum System Voltage	1000 V DC (IEC)		
Maximum Series Fuse Rating	20 A		
Power Tolerance	0/+5 W		

STC: Irradiance 1000 W/m², module temperature 25 °C, AM=1.5;
Best in Class AAA solar simulator (IEC 60904-9) used, power measurement uncertainty is within +/- 3%

NOCT	AE6H300 WB5B	AE6H295 WB5B	AE6H290 WB5B
Maximum Power at NOCT (Pmax)	223.9 W	219.3 W	214.7 W
Optimum Operating Voltage (Vmp)	30.4 V	30.1 V	29.6 V
Optimum Operating Current (Imp)	7.38 A	7.29 A	7.25 A
Open Circuit Voltage (Voc)	37.0V	36.9 V	36.7 V
Short Circuit Current (Isc)	7.85 A	7.79 A	7.73 A

NOCT: Irradiance 800 W/m², ambient temperature 20 °C, AM=1.5, wind speed 1 m/s;
Best in Class AAA solar simulator (IEC 60904-9) used, power measurement uncertainty is within +/- 3%

Temperature Characteristics

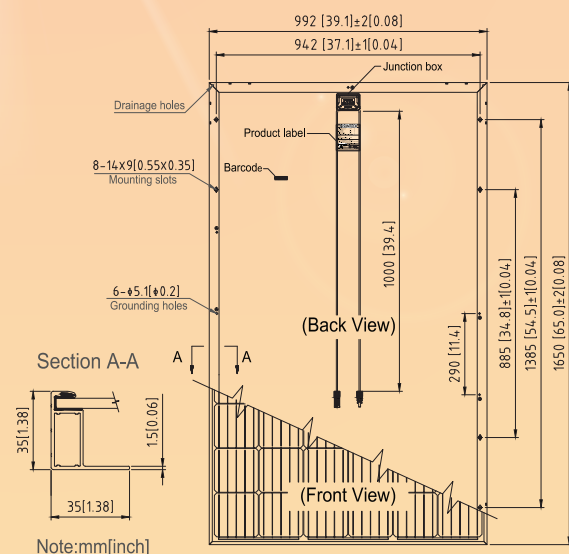
Nominal Operating Cell Temperature (NOCT)	45±2°C
Temperature Coefficient of Pmax	-0.40 %/°C
Temperature Coefficient of Voc	-0.34 %/°C
Temperature Coefficient of Isc	0.060 %/°C

Mechanical Characteristics

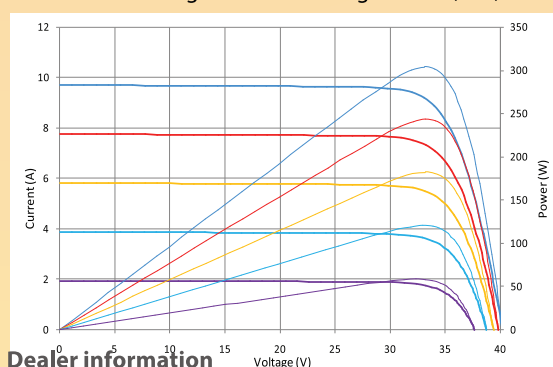
Solar Cell	Monocrystalline silicon 6 inches
No. of Cells	60 (6 × 10)
Dimensions	1650 × 992 × 35mm (64.96 × 39.1 × 1.4 inches)
Weight	18.3 kgs (40.3 lbs.)
Front Glass	3.2 mm (0.13 inches) tempered glass
Frame	Anodized aluminium alloy
Junction Box	IP68 rated (3 bypass diodes)
Output Cables	TUV (2Pfg1169:2007) 4.0 mm ² (0.006 inches ²), symmetrical lengths (-) 1000mm (39.4 inches) and (+) 1000 mm (39.4 inches)
Connectors	MC4 compatible

Packing Configuration

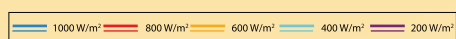
Container	20' GP	40' HC
Pieces per pallet	30	30
Pallets per container	6	28
Pieces per container	180	840



Current-Voltage & Power-Voltage Curve (300)



Dealer information



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www.anchor-world.com

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.