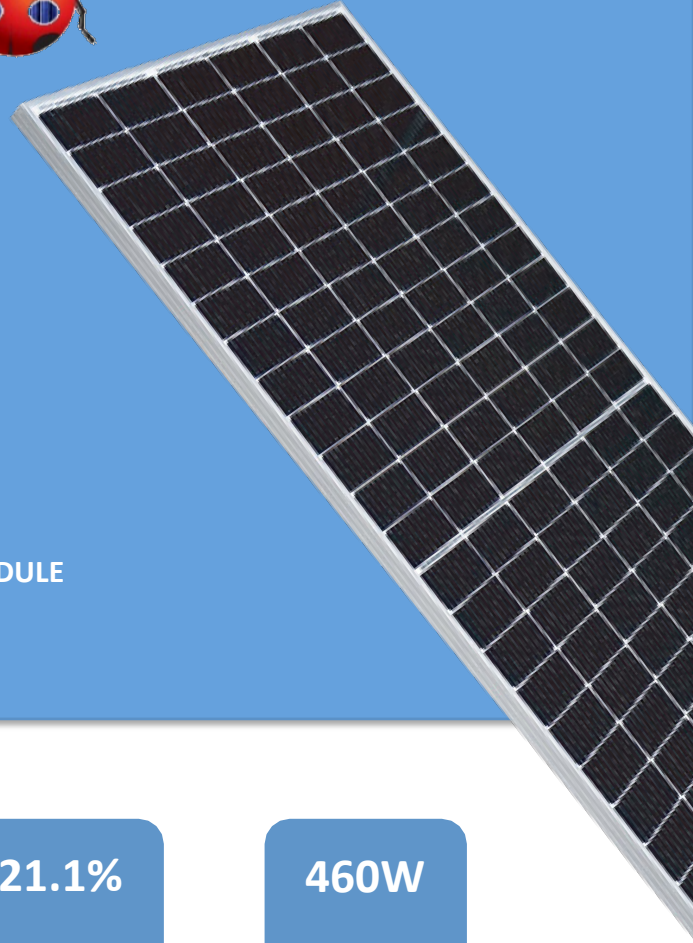


EvoSolar

by  Voxery



Evosolar NE-S144/M6H 166 Half Cell Series 435-460W

144-CELL HALF CUT MONOCRYSTALLINE SOLAR MODULE

Product Advantages



High Power Output

Compared to 158.75mm module, the power output can increase 25W-30W



High Reliability

Passed 3*IEC standard test



Low Hot-spot Risk

1/2 current, reducing the hot spot temperature



Excellent loading capability

2400Pa wind loads, 5400Pa snow loads, 8000Pa extra support



Low NMOT

As low as 43°C, improving the power generation efficiency



Half Cell, MBB Technology

Series-then-parallel cell connection design, more reliable soldering technology

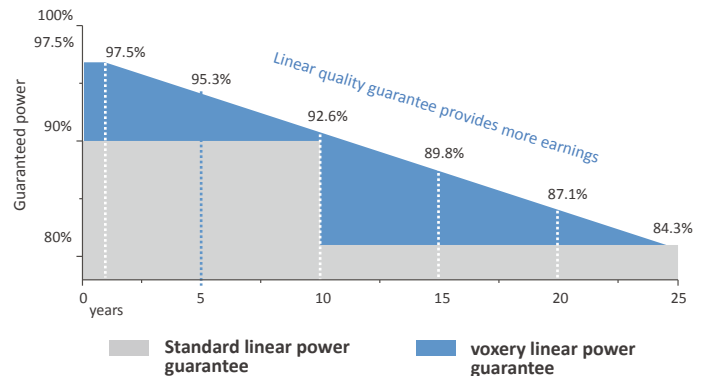
21.1%

Module efficiency

460W

Highest power output

Product Guarantee



-2.50%

First year power degradation

-0.55%

Annual degradation

15
Years

Materials and workmanship warranty

25
Years

Linear power warranty

Product Certification



Voxery

Quinta da Bergerie Prendedores 3660-068 CARVALHAIS SPS PORTUGAL

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Electrical Characteristics

STC	435	440	445	450	455	460
Maximum Power at STC (Pmax)	435W	440W	445W	450W	455W	460W
Optimum Operating Voltage (Vmp)	40.8V	41.0V	41.2V	41.4V	41.6V	41.8V
Optimum Operating Current (Imp)	10.67A	10.74A	10.81A	10.87A	10.94A	11.01A
Open Circuit Voltage (Voc)	48.6V	48.8V	49.0V	49.2V	49.4V	49.6V
Short Circuit Current (Isc)	11.4A	11.47A	11.54A	11.61A	11.68A	11.25A
Module Efficiency	20.0%	20.2%	20.5%	20.7%	20.9%	21.1%
Operating Module Temperature	-40 °C to +85 °C					
Maximum System Voltage	1500 V DC (IEC)					
Maximum Series Fuse Rating	20 A					
Power Tolerance	0~+5W					

STC: Irradiance 1000 W/m², module temperature 25 °C, AM=1.5; Measuring tolerance: ± 3%.

NMOT	435	440	445	450	455	460
Maximum Power at NMOT (Pmax)	334.9W	339.0W	343.1W	348.1W	352.2W	356.8W
Optimum Operating Voltage (Vmp)	38.5V	38.7V	38.9V	39.2V	39.4V	39.6V
Optimum Operating Current (Imp)	8.70A	8.76A	8.82A	8.88A	8.94A	9.01A
Open Circuit Voltage (Voc)	46.80V	47.0V	47.2V	47.4V	47.6V	47.8V
Short Circuit Current (Isc)	9.19A	9.24A	9.30A	9.36A	9.42A	9.48A

NMOT: Irradiance 800 W/m², ambient temperature 20 °C, AM=1.5, wind speed 1 m/s;

Temperature Characteristics

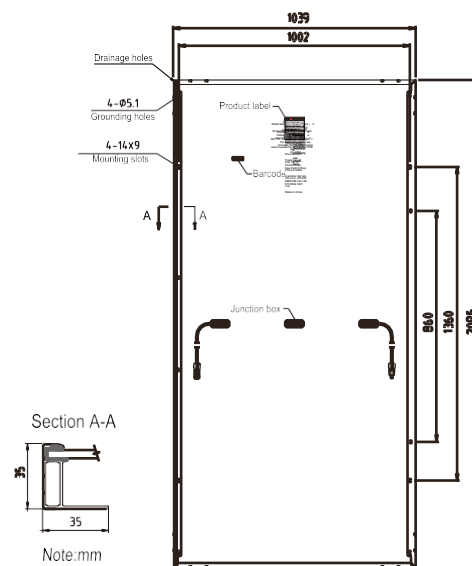
Nominal Module Operating Temperature(NMOT)	42 ± 2 °C
Temperature Coefficient of Pmax	-0.34 %/°C
Temperature Coefficient of Voc	-0.25%/°C
Temperature Coefficient of Isc	0.040 %/°C

Mechanical Characteristics

Solar Cell	Monocrystalline silicon 166 mm (9BB)
No. of Cells	144 (6 × 24)
Dimensions	2095 × 1039 × 35 mm
Weight	23.8 kgs
Front Glass	3.2 mm tempered glass with AR coating
Frame	Anodized aluminium alloy
Junction Box	IP68 rated (3 bypass diodes)
Output Cables	4.0 mm ² , cable length 350mm or customized length

Packing Configuration

Container	20' GP	40' HC
Pieces per pallet	31	31+2
Pallets per container	5	22
Pieces per container	155	726



Current-Voltage & Power-Voltage Curve (445)

