

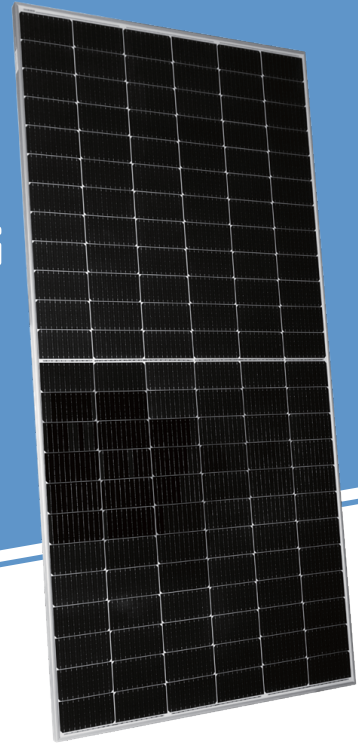
# EvoSolar

by  Voxery

## Evosolar NE-S144/M10H-xxx-BG 182mm Bifacial Series

# 535-545W

144-CELL HALF BIFACIAL MODULE



### Product Advantages



#### High module conversion efficiency

Module efficiency up to 21.1% achieved through advanced cell technology and manufacturing process



#### GPNE current sorting process

Up to 2% power loss caused by current mismatch could be diminished by current sorting technique to maximize system power output



#### Lower operating temperature

Lower operating temperature and temperature coefficient increases the power output



#### Excellent weak light performance

More power output in weak light condition, such as cloudy, morning and sunset



#### 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 a better sustainability even in harsh environment like desert, farm and coastline



#### IP68 junction box

High waterproof level

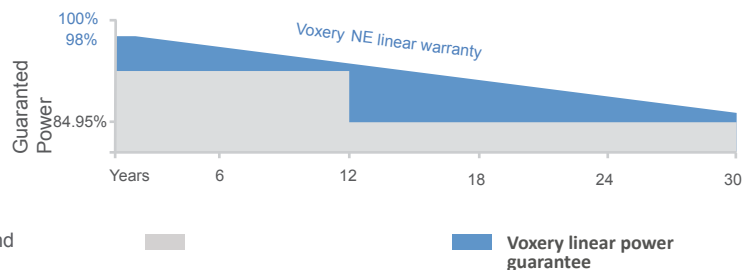
## 21.1%

Module efficiency

## 545W

Highest power output

### Performance Warranty



## -2.00%

first year power degradation

## -0,45%

Standard linear power guarantee

## 15

Years

Materials and workmanship warranty

## 30

Years

Linear power warranty

### Product Certification



Voxery

Quinta da Bergerie Prendedores 3660-068 CARVALHAIS SPS PORTUGAL

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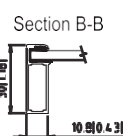
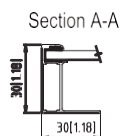
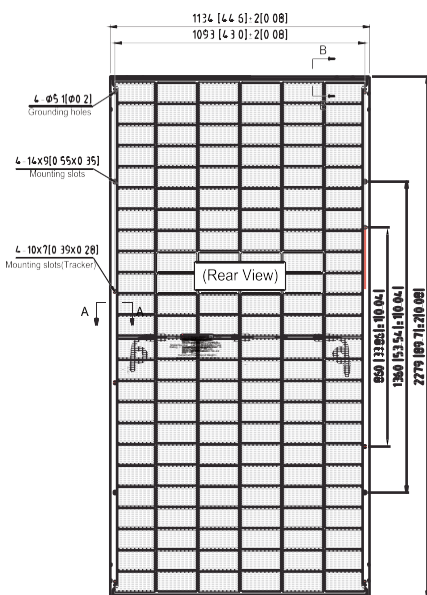
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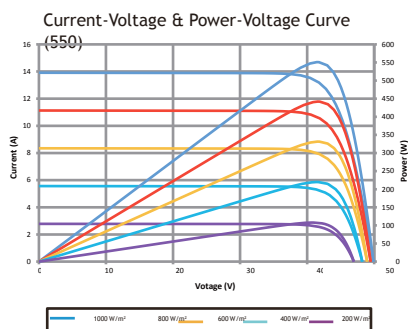
# NE-S144/M10H-xxx-BG



## TECHNICAL DRAWINGS



Note:mm[inch]



## ELECTRICAL PARAMETERS

Maximum Power (Pmax/W)*	535	540	545
Operating Voltage (Vmp/V)	41.8	41.9	42.0
Operating Current (Imp/A)	12.80	12.89	12.98
Open-Circuit Voltage (Voc/V)	49.6	49.7	49.8
Short-Circuit Current (Isc/A)	13.53	13.62	13.71
Module Efficiency ηm(%)	20.7	20.9	21.1
Power Tolerance(W)	0~+5		

STC:Irradiance 1000W/m<sup>2</sup>,module temperature 25°C,AM=1.5;\*Measuring tolerance: ±3%

## Performance at NMOT

Maximum Power (Pmax/W)	398	402	405
Operating Voltage (Vmp/V)	38.9	39.0	39.1
Operating Current (Imp/A)	10.23	10.30	10.37
Open-Circuit Voltage (Voc/V)	46.4	46.5	46.6
Short-Circuit Current (Isc/A)	10.91	10.98	11.05

NMOT:Irradiance 800W/m<sup>2</sup>,ambient temperature 20°C,AM=1.5, wind speed 1m/s

## Electrical Characteristics with Different Rearside Power Gain (Reference to 540 W Front)

Rearside Power Gain	5%	15%	25%
Maximum Power at STC (Pmax)	567	621	675
Optimum Operating Voltage (Vmp)	41.9	42.0	42.1
Optimum Operating Current (Imp)	13.53	14.79	16.08
Open Circuit Voltage (Voc)	49.7	49.8	49.9
Short Circuit Current (Isc)	14.30	15.71	17.13
Module Efficiency	21.9	24.0	26.1

## 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 182 mm
No. of Cells	144 (6 × 24)
Dimensions	2279 × 1134 × 30 mm (89.7 × 44.6 × 1.2 inches)
Weight	31.5 kgs (69.4 lbs.)
Front\Back Glass	2.0+2.0 mm (0.079+ 0.079inches) semi-tempered glass
Frame	Anodized aluminium alloy
Junction Box	IP68 rated (3 bypass diodes)
Output Cables	Photovoltaic Technology Cable 4.00mm <sup>2</sup> Cable length 350mm or customized length
Refer. Bifaciality Factor	( 70 ± 5 ) %

## Packing Configuration

Container	40' HC
Pieces per pallet	36
Pallets per container	20
Pieces per container	720
Packaging box dimensions	2330×1130×1270 mm
Packaging box weight	1200 kg

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