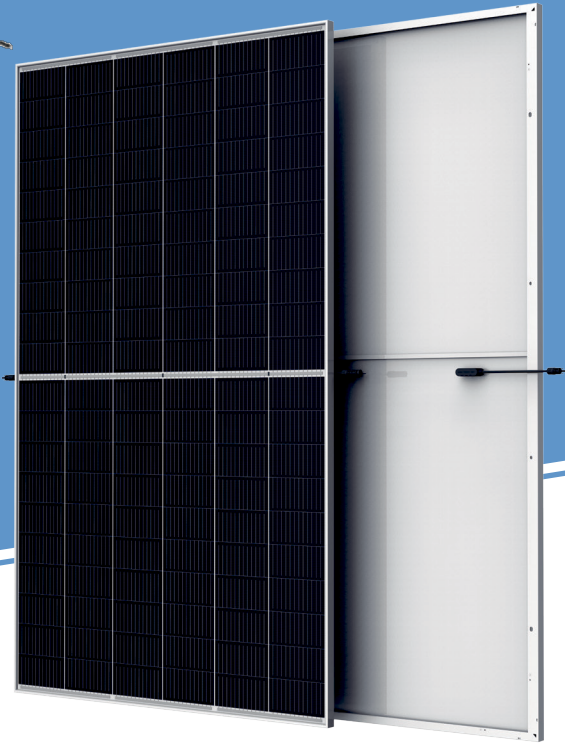


EvoSolar

by  Voxery



Evosolar NE-S120/M12H-xxx

590-605w

210mm cells half cut cell technology

Product Advantages



High customer value

Lower LCOE (Levelized Cost Of Energy), reduced BOS (Balance Of System) cost, shorter payback time
Lower guaranteed first year and annual degradation
Designed for compatibility with existing mainstream system components
Higher return on Investment



High power up to 605W

Large area cells based on 210mm silicon wafers and half-cut cell technology
Up to 21.4% module efficiency with high density interconnect technology
Multi-busbar technology for better light trapping effect, lower series resistance and improved current collection



High reliability

Minimized micro-cracks with innovative non-destructive cutting technology Ensured PID resistance through cell process and module material control Resistant to harsh environments such as salt, ammonia, sand, high temperature and high humidity areas. Mechanical performance up to 5400 Pa positive load and 2400 Pa negative load



High energy yield

Excellent IAM(Incident Angle Modifier)and low irradiation performance, validated by 3rd party certifications
The unique design provides optimized energy production under inter-row shading conditions

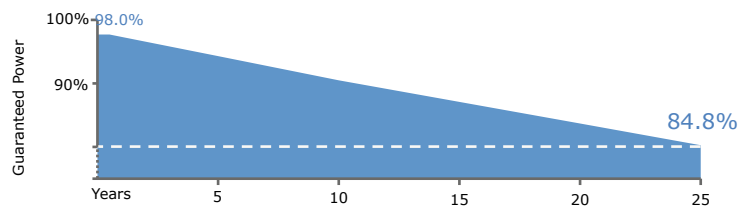
21.4%

Module efficiency

605W

Highest power output

Performance Warranty



- 2.00%

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

Web: www.voxerysolar.com Email : info@voxerysolar.com

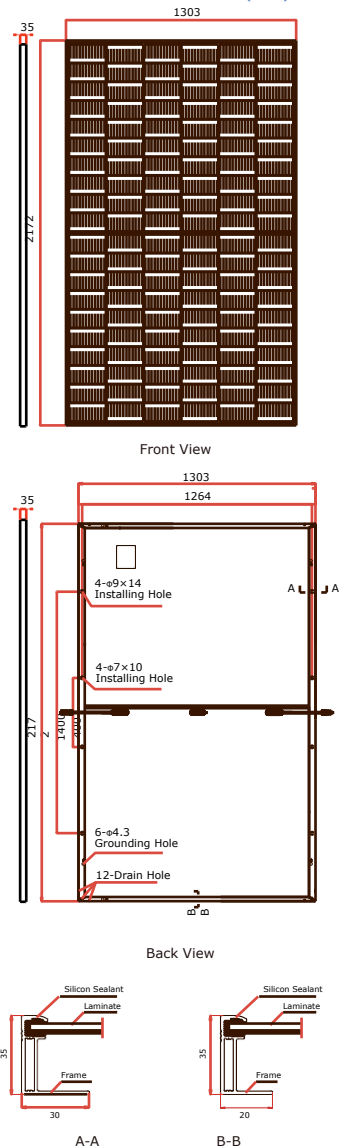
EvoSolar

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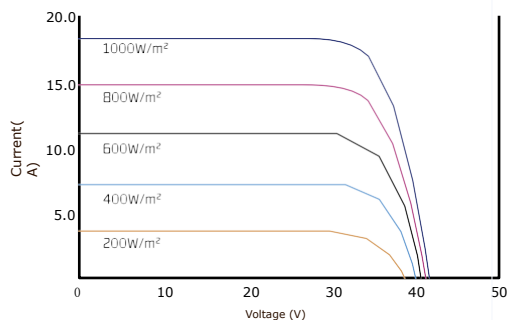
NE-S120/M12H-xxx



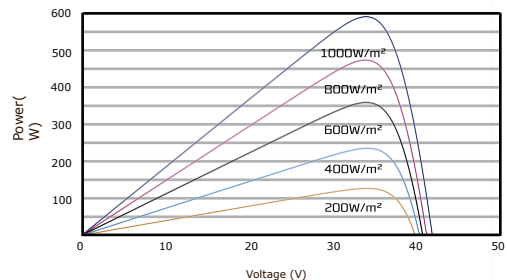
DIMENSIONS OF PV MODULE(mm)



I-V CURVES OF PV MODULE(595W)



P-V CURVES OF PV MODULE(595W)



ELECTRICAL DATA (STC)

Peak Power Watts-P _{MAX} (Wp)*	590	595	600	605
Power Tolerance-P _{MAX} (W)	0 ~ +5			
Maximum Power Voltage-V _{MPP} (V)	34.0	34.2	34.4	34.6
Maximum Power Current-I _{MPP} (A)	17.35	17.40	17.44	17.49
Open Circuit Voltage-V _{OC} (V)	41.1	41.3	41.5	41.7
Short Circuit Current-I _{SC} (A)	18.42	18.47	18.52	18.57

Module Efficiency η

STC: Irradiance 1000W/m², Cell Temperature 25°C, Air Mass AM1.5.
 *Measuring tolerance: \pm 3%.

ELECTRICAL DATA (NOCT)

Maximum Power-P _{MAX} (Wp)	447	451	454	458
Maximum Power Voltage-V _{MPP} (V)	31.7	31.9	32.0	32.2
Maximum Power Current-I _{MPP} (A)	14.09		14.18	14.22
Open Circuit Voltage-V _{OC} (V)	38.7	38.9	39.1	39.3
Short Circuit Current-I _{SC} (A)	14.85	14.88	14.92	14.96

NOCT: Irradiance at 800W/m², Ambient Temperature 20°C, Wind Speed 1m/s.

MECHANICAL DATA

Solar Cells	Monocrystalline
No. of cells	120 cells
Module Dimensions	2172x1303x35mm
Weight	30.9 kg
Glass	3.2 mm, High Transmission, AR Coated Heat Strengthened Glass
Encapsulant Material	EVA
Backsheet	White
Frame	35 mm Anodized Aluminium Alloy
J-Box	IP 68 rated
Cables	Photovoltaic Technology Cable 4.0mm ² Cable length 350mm or customized length
Connector	MC4 Compatible

TEMPERATURE RATINGS

NOCT(Nominal Operating Cell Temperature)	43°C (\pm 2°C)
Temperature Coefficient of P _{MAX}	- 0.36%/°C
Temperature Coefficient of V _{OC}	- 0.26%/°C
Temperature Coefficient of I _{SC}	0.04%/°C

(Do not connect Fuse in Combiner Box with two or more strings in parallel connection)

MAXIMUM RATINGS

Operational Temperature	-40~+85°C
Maximum System Voltage	1500V DC (IEC)
Max Series Fuse Rating	30A

WARRANTY

12 year Product Workmanship Warranty
25 year Power Warranty
2% first year degradation
0.55% Annual Power Attenuation

(Please refer to product warranty for details)

PACKAGING CONFIGURATION

Modules per box: 31 pieces
Modules per 40' container: 558 pieces

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