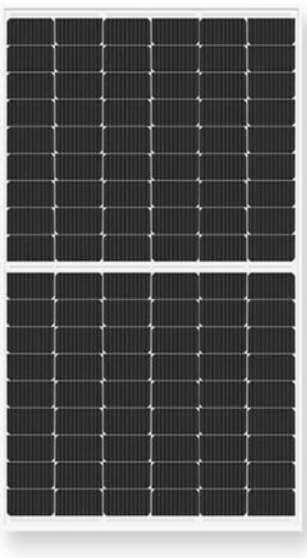
B.A.B zuverlässig, erfahren, kompetent

Baumanagement Arthur Becker

www.baumanagement-viersen.de

NES108/400-410W
182MM F35mm
MBB Half Cell Mono Solar Panel



Key Features

Half Cell
The power of Half-cell solar panel increases, and the hot spot temperature reduces because of lower working current

Positive Tolerance
Positive tolerance of up to 0~+5W delivers higher outputs reliablity

High PID Resistant
Advanced cell technology and qualified materials lead to high PID resistant

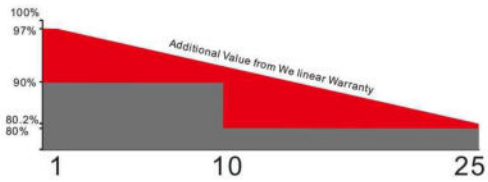
Current Sorting Process
System output maximized by reducing mismatch losses up to 2% with modules sorted & packaged by amperage

Extended Wind and Snow load tests
Module certified to withstand extreme wind (2400 Pascal) and snow loads(5400 Pascal)

1500V
Backsheet and junction box supporting 1500V system

Quality Guarantee

Industry-Leading Warranty Based on Nominal Power



* 25-year linear power output warranty
* 10-year product warranty
* The first year attenuation ≤ 2%

*MBB solar cells , Low resistance loss and higher conversion efficiency
*Double EL test before and after lamination, highly control product defects
*Solar panel classified by current, to improve system performance

Certificates

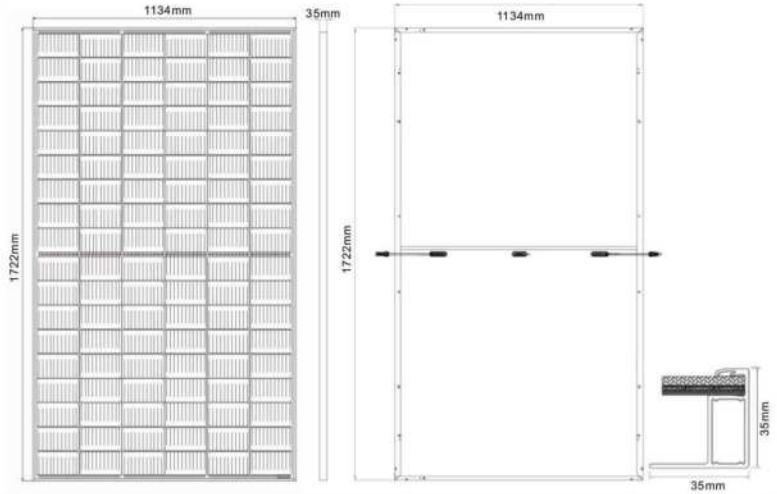
*ISO9001:2015
*ISO14001:2015
*ISO45001:2018
*TUV 、 CE 、 CQC 、 SGS 、 INMETRO 、 DEKRA

NES108/400-410W
182MM F35mm
MBB Half Cell Mono Solar Panel

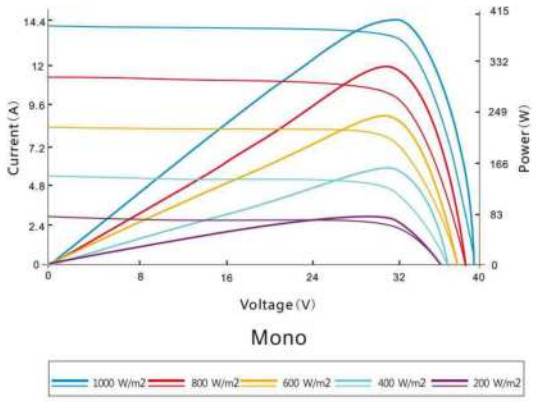
Electrical Characteristics

STC	NES108-7-400M	NES108-7-405M	NES108-7-410M
Maximum Power(Pmax)	400W	405W	410W
Optimum Operating Voltage(Vmp)	31.01V	31.21V	31.45V
Optimum Operating Current(Imp)	12.90A	12.98A	13.04A
Open Circuit Voltage(Voc)	37.07V	37.23V	37.32V
Short Circuit Current(Isc)	13.79A	13.87A	13.95A
Module Efficiency	20.48%	20.74%	21.00%
Operating Module Temperature	-40°C to +85°C		
Maximum System Voltage	1500V DC (IEC)		
Power Tolerance	0~+5W		
STC	Irradiance 1000 W/m², module temperature 25°C, AM=1.5; Best in Class AAA solar simulator (IEC 60904-9) used		

Engineering Drawing



I-V Curve



Excellent performance under weak light conditions: at an irradiation intensity of 800W/m² (AM 1.5, 25°C), 95.5% or higher of the STC efficiency(1000W/m²) is achieved.

Mechanical Characteristics

Solar Cell	182mm MBB Monocrystalline silicon cells
No. of Cells	108(6x9x2)
Dimensions	1722mmx1134mmx35mm
Weight	21.5kg±3%
Front Glass	3.2mm(0.13 inches) tempered glass
Frame	All black anodized aluminium alloy
Junction Box	Ip68 rated
Output Cables	TÜV (2Pfg1169:2007)
	4.0 mm² (0.006 inches²), 300mm/Customized
Connectors	MC4 connectors

Temperature Characteristics

NOCT	45±2°C
Temperature Coefficient of Pmax	-0.350%/°C
Temperature Coefficient of Voc	-0.275%/°C
Temperature Coefficient of Isc	0.045%/°C

Packing Configuration(35mm)

Per Pallet	31Pieces
Per Container (40' HQ)	806Pieces

Note: Specifications subject to technical changes and tests, We reserves the right of final interpretation.

2022. V1 EN