

GP-NES144/530-600W 182mm MBB Bifacial Half Cell Mono Solar Panel

Green Power sarl

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Key Features



Half Cel

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

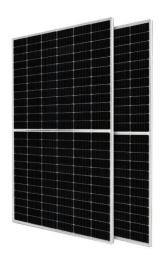
load tests

Module certified to withstand extreme wind (2400 Pascal) and snow loads(5400 Pascal)

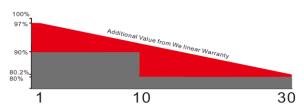


1500V

Backsheet and junction box supporting 1500V system



Industry-Leading Warranty Based on Nominal Power



- * 30-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







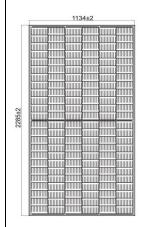


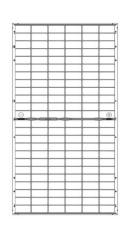




Specifications								
STC	NES144-7-530M	NES144-7-535M	ES144-7-540M	NES144-7-545M	NES144-7-550M	NES144-7-600M		
Maximum Power(Pmax)	530W	535W	540W	545W	550W	600W		
Optimum Operating Current(Imp)	12.83A	12.90A	12.97A	13.04A	13.11A	14.3		
Optimum Operating Voltage(Vmp)	41.31V	41.47V	41.64V	41.80V	41.96V	42.06V		
Open Circuit Voltage(Voc)	49.30V	49.45V	49.60V	49.75V	49.90V	50.03		
Short Circuit Current(Isc)	13.72A	13.79A	13.86A	13.93A	14.00A	15.27		
Module Efficiency	0.2045	20.64%	20.84%	21.03%	21.23%	21.23%		
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 25oC, AM=1.5; Best in Class AAA solar simulator (IEC 60904-9) used								

Engineering Drawing







Excellent performance under weak light conditions: at an irradiation intensity of $800W/m^2$ (AM 1.5, 25°C), 95.5% or higher of the STC efficiency($1000W/m^2$) is achieved.

Mechanical Characteristics

Solar Cell 182mm MBB Monocrystalline silicon cells

No. of Cells 144(6x12x2)

Dimensions 2285±2mmx1134±2mmx35±1mm

Weight 31.6kg±3%

3.2mm(0.13 inches) tempered glass Front Glass

Anodized aluminium alloy Frame

Ip68 rated Junction Box

Output Cables TÜV (2Pfg1169:2007)

4.0 mm2 (0.006 inches2), 300mm/Customized

MC4 connectors Connectors

Note: Specifications subject to technical changes and tests

Temperature Characteristics

NOCT	45±2°C
Temperature Coefficient of Pmax	-0.35%/°C
Temperature Coefficient of Voc	-0.275%/°C
Temperature Coefficient of Isc	0.045%/°C

Packing Configuration(35mm)

Per Pallet	Surfeces
Per Container (20' GP)	250Pieces
Per Container (40' HQ)	624Pieces