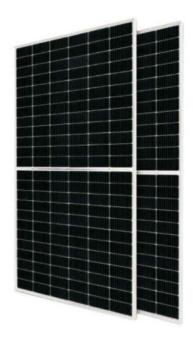
NES144/525-550W 182mm MBB **Bifacial Half Cell Mono Solar Panel** 



# **Key Features**





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



#### 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)



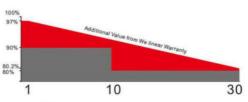
#### 1500V

Backsheet and junction box supporting 1500V system

## **Quality Guarantee**



#### Industry-Leading Warranty Based on Nominal Power



- \* 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
- \*Solar panel classified by current, to improve system performance

### Certificates



- \*ISO9001:2015
- \*ISO14001:2015
- \*ISO45001:2018
- \*TUV, CE, CQC, SGS, INMETRO, DEKRA











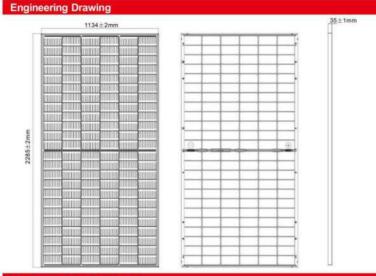


### NES144/525-550W 182mm MBB Bifacial Half Cell Mono Solar Panel

STO						
STC	NES144-7-525M	NES144-7-530M	NES144-7-535M	NES144-7-540M	NES144-7-545M	NES144-7-550M
Maximum Power(Pmax)	525W	530W	535W	540W	545W	550W
Optimum Operating Voltage(Vmp)	41.15V	41.31V	41.47V	41.64V	41.80V	41.96V
Optimum Operating Current(Imp)	12.76A	12.83A	12.90A	12.97A	13.04A	13.11A
Open Circuit Voltage(Voc)	49.15V	49.30V	49.45V	49.60V	49.75V	49.90V
Short Circuit Current(Isc)	13.65A	13.72A	13.79A	13.86A	13.93A	14.00A
Module Efficiency	20.26%	20.45%	20.64%	20.84%	21.03%	21.23%
Operating Module Temperature			-40°C to	o +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



Solar Cell	182mm MBB Monocrystalline silicon cells
No. of Cells	144(6x12x2)
Dimensions	2285±2mmx1134±2mmx35±1mm
Weight	31.6kg±3%
Front Glass	3.2mm(0.13 inches) tempered glass
rame	Anodized aluminium alloy
lunction Box	lp68 rated
Output Cables	TÜV (2Pfg1169:2007)
	4.0 mm² (0.006 inches²), 300mm/Customized
Connectors	MC4 connectors

15					555
12.5					- 444
₹ 10-		/	/		- 333
7.5-		//			- 222
2.5					- 111
0	10	20	30	40	50 0
			oltage (V)	10.00 m	
		M	lono		

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.

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	

Per Pallet	200:
rei railet	30Pieces
Per Container (20' GP)	250Pieces
Per Container (40' HQ)	624Pieces

Note: Specifications subject to technical changes and tests, We reserves the right of final interpretation. 2021. V1 EN