

中国电子科技集团有限公司 浙江嘉科新能源科技有限公司 ZHEJIANG JEC NEW ENERGY TECHNOLOGY CO.,LTD

NES144/440-460W F 35mm 9BB Mono Solar Panel



### About Us



Zhejiang JEC New Energy Technology CO., Ltd (CETCsolar) located in Jiaxing, Zhejiang Province. Formly New Energy Sector of No.36 Research Institute of CETC( No.36 Research Institute), is a holding company of No. 36 Research Institute. Our core products are PV modules, commercial, public and household PV system, PV micro system. We have a professional system design capability, specializes in design, construction, operation and maintenance for distributed PV power station and environmental PV system, has a Zhejiang Province key enterprise institute---Institute of PV equipment and intelligent control.

We will uphold the rigorous style of military workers, provide the best quality products and service to our customers and help them create value.

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# **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)



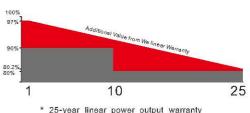
#### 1500V

Backsheet and junction box supporting 1500V system

# **Quality Guarantee**



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



- \* 10-year linear power output warranty
- \* The first year attenuation ≤ 2%
- \*9BB solar cells, Low resistance loss and higher conversior 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











WeChat Official Accounts



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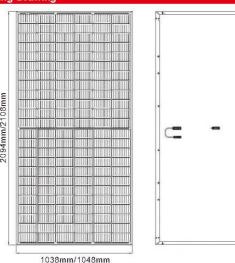
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CTC	NES144-6-440M	NES144-6-445M	NES144-6-450M	NES144-6-460M	
STC	144-0-440M	144-0-443W	INES 144-0-430IVI	NES 144-0-400M	
Maximum Power(Pmax)	440W	445W	450W	460W	
Optimum Operating Voltage(Vmp)	40.50V	40.80V	41.00V	42.13V	
Optimum Operating Current(Imp)	10.86A	10.92A	10.98A	10.92A	
Open Circuit Voltage(Voc)	49.00V	49.20V	49.50V	50.01V	
Short Circuit Current(Isc)	11.30A	11.36A	11.42A	11.45A	
Module Efficiency	20.24%	20.47%	20.70%	21.16%	
Operating Module Temperature	-40°C to +85°C				
Maximum System Voltage	1500V DC (IEC)				
Power Tolerance	0~+5W				

Irradiance 1000 W/m2, module temperature 25°C, AM=1.5; Best in Class AAA solar simulator (IEC 60904-9) used

#### **Engineering Drawing**

STC



1038mm/1048mm		
Mechanical Charac	cteristics	
Solar Cell	166mm 9BB Monocrystalline silicon cells	
lo. of Cells	144(6x12x2)	
imensions	2094x1038x35mm; 2108x1048x35mm	
Veight	24.5kg	
ront Glass	3.2mm(0.13 inches) tempered glass	
rame	Anodized aluminium alloy	
unction Box	lp67 rated	
Output Cables	TÜV (2Pfg1169:2007)	
	4.0 mm² (0.006 inches²), 300mm/Customized	
Connectors	MC4 connectors	

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.

Temperature Characteristics				
NOCT	45±2°C			
Temperature Coefficient of Pmax	-0.380%/°C			
Temperature Coefficient of Voc	-0.300%/°C			
Temperature Coefficient of Isc	0.060%/°C			

Packing Configuration(35mm)				
Per Pallet	30Pieces			
Per Container (20' GP)	282Pieces			
Per Container (40' HQ)	704Pieces			

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

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