



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



NES144/390-410W
F 35mm
9BB Mono Solar Panel

About Us







Zhejiang JEC New Energy Technology CO., Ltd (CETCsolar) located in Jiaxing, Zhejiang Province. Formerly 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.

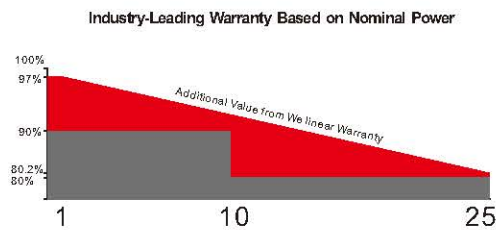
We will uphold the rigorous style of military workers, provide the best quality products and service to our customers and help them create value.

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Quality Guarantee

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 reliability
- 
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



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

- *9BB 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



WeChat Official Accounts

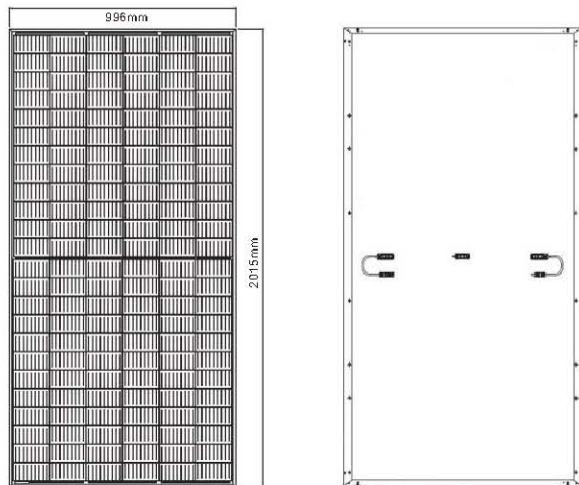
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Electrical Characteristics

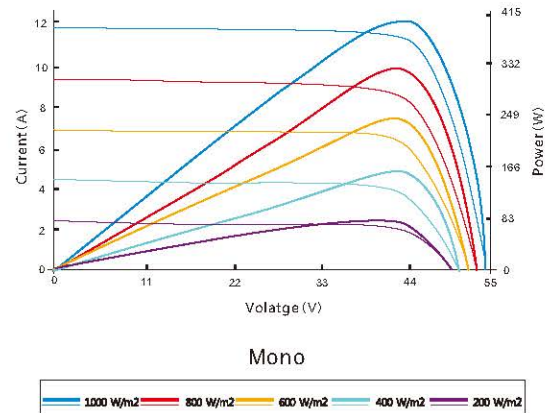
STC	NES144-6-390M	NES144-6-395M	NES144-6-400M	NES144-6-405M	NES144-6-410M
Maximum Power(Pmax)	390W	395W	400W	405W	410W
Optimum Operating Voltage(Vmp)	40.71V	41.02V	41.33V	41.60V	41.88V
Optimum Operating Current(Imp)	9.58A	9.63A	9.68A	9.74A	9.79A
Open Circuit Voltage(Voc)	49.01V	49.30V	49.58V	49.86V	50.12V
Short Circuit Current(Isc)	10.23A	10.28A	10.33A	10.39A	10.45A
Module Efficiency	19.43%	19.68%	19.93%	20.18%	20.43%
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 irradiance 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	158mm 9BB Monocrystalline silicon cells
No. of Cells	144(6x12x2)
Dimensions	2015x996x35mm
Weight	22.7kg
Front Glass	3.2mm(0.13 inches) tempered glass
Frame	Anodized aluminium alloy
Junction Box	Ip67 rated
Output Cables	TÜV (2Pfg1169:2007) 4.0 mm ² (0.006 inches ²), 300mm/Customized
Connectors	MC4 connectors

Temperature Characteristics

NOCT	45±2°C
Temperature Coefficient of Pmax	-0.350%/°C
Temperature Coefficient of Voc	-0.272%/°C
Temperature Coefficient of Isc	0.044%/°C

Packing Configuration(35mm)

Per Pallet	30Pieces
Per Container (20' GP)	312Pieces
Per Container (40' HQ)	785Pieces

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

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