



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 35/40mm
9BB Mono Solar Panel

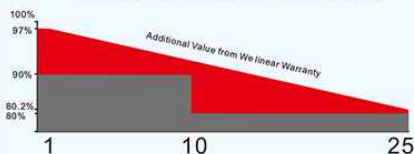
About Us

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 inverter, Intelligent controllers, 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.

Address: No.587 Taoyuan Road, Jiaxing, Zhejiang, P.R.China
Tel : +86-0573-82651222
Fax: +86-0573-82651223
E-mail: sales1@cetcsolar.com
Web: www.cetcsolarpv.com

Industry-Leading Warranty Based on Nominal Power



- * 25-year linear power output warranty
- * 10-year product warranty

Key Features



High Conversion Efficiency

Module efficiency up to 20.43% achieved through advanced cell technology and manufacturing capabilities



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)



Withstanding Harsh Environment

Reliable quality leads to a better sustainability even in harsh environment like desert, farm and coastline

Quality Guarantee

*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

*Max System Voltage DC1000/1500V(IEC)

Certificates

*ISO9001:2008

*ISO14001:2004

*TUV、CE、CQC、SGS、INMETRO



NES144/390-410W

F 35/40mm

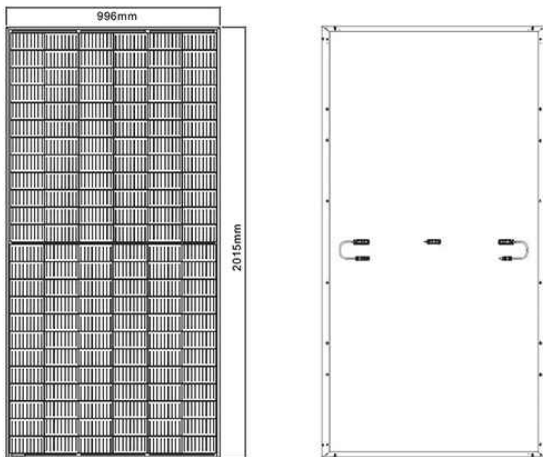
9BB Mono Solar Panel

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

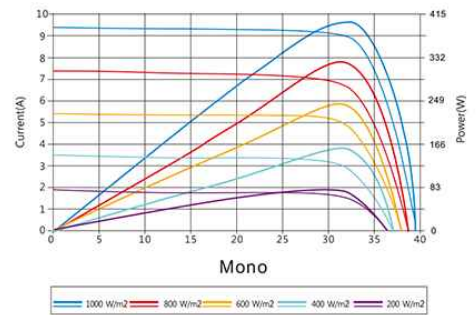
Electrical Characteristics

| 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 | 1000/1500V DC (IEC) | | | | |
| Power Tolerance | 0~+5W | | | | |
| STC | Irradiance 1000 W/m ² , 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 | Monocrystalline silicon cells |
| No. of Cells | 144(6x12x2) |
| Dimensions | 2015x996x35/40mm |
| Weight | 22.7Kgs |
| 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) |
| 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 |