



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

NES132/650-670W
210MM F 35mm
MBB Half Cell Mono Solar Panel



About Us

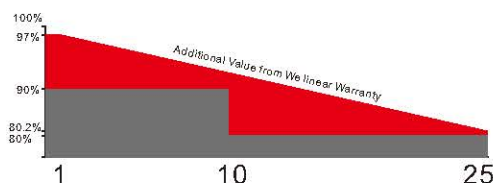
Zhejiang JEC New Energy Technology CO., Ltd (CETCsolar) located in Jiaxing, Zhejiang Province. Formerly New Energy Sector of No.36 Research Institute of CETC(No.36 Research Institute), is a holding company of No. 36 Research Institute. Our core products are PV modules, commercial, public and household 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.

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.cetcsolar.com www.cetcsolarpv.com

Quality Guarantee

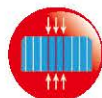
Industry-Leading Warranty Based on Nominal Power



- * 25-year linear power output warranty
- * 10-year product warranty
- * The first year attenuation $\leq 2\%$

- * 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

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 $0 \rightarrow +5W$ 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

Certificates

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



WeChat Official Accounts

NES132/650-670W 210MM F 35mm MBB Half Cell Mono Solar Panel



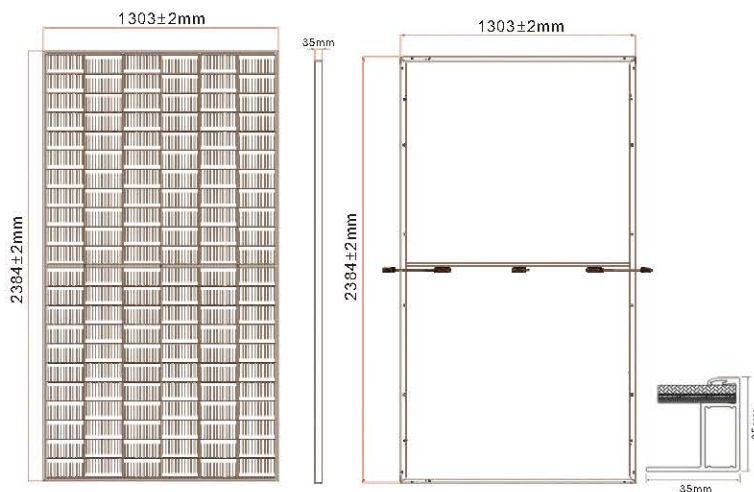
中国电子科技集团有限公司
浙江嘉科新能源科技有限公司
ZHEJIANG JEC NEW ENERGY TECHNOLOGY CO.,LTD

Electrical Characteristics

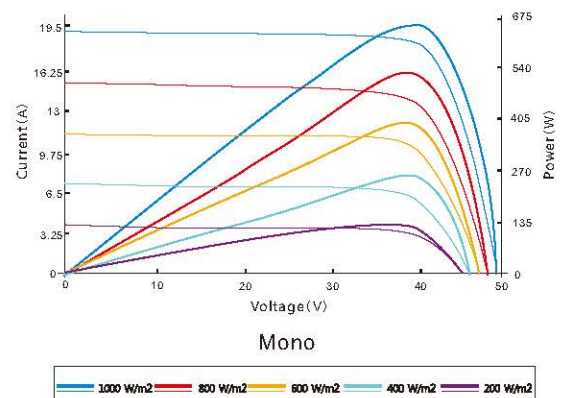
STC	NES132-7-650M	NES132-7-655M	NES132-7-660M	NES132-7-665M	NES132-7-670M
Maximum Power(Pmax)	650W	655W	660W	665W	670W
Optimum Operating Voltage(Vmp)	37.40V	37.60V	37.80V	38.00V	38.20V
Optimum Operating Current(Imp)	17.39A	17.43A	17.47A	17.51A	17.55A
Open Circuit Voltage(Voc)	45.30V	45.50V	45.70V	45.90V	46.10V
Short Circuit Current(Isc)	18.44A	18.48A	18.53A	18.57A	18.62A
Module Efficiency	20.92%	21.08%	21.25%	21.40%	21.57%
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	210mm MBB Monocrystalline silicon cells
No. of Cells	132(6x11x2)
Dimensions	2384±2mmx1303±2mmx35±1mm
Weight	33.9kg±3%
Front Glass	3.2mm(0.13 inches) tempered glass
Frame	Anodized aluminium alloy
Junction Box	Ip68 rated
Output Cables	TÜV (2Pfg1169:2007)
	4.0 mm ² (0.006 inches ²), 300mm/Customized
Connectors	MC4 connectors

Temperature Characteristics

NOCT	43±2°C
Temperature Coefficient of Pmax	-0.340%/°C
Temperature Coefficient of Voc	-0.250%/°C
Temperature Coefficient of Isc	0.040%/°C

Packing Configuration(35mm)

Per Pallet	31Pieces
Per Container (40' HQ)	527Pieces

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

2022. V1 EN