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

NES132/480-505W
F 35mm
MBB Half Cell 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

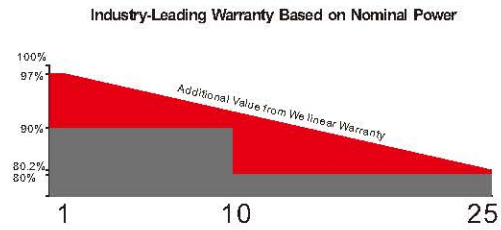
High PID Resistant
Advanced cell technology and qualified materials lead to high PID resistant

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



* 25-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 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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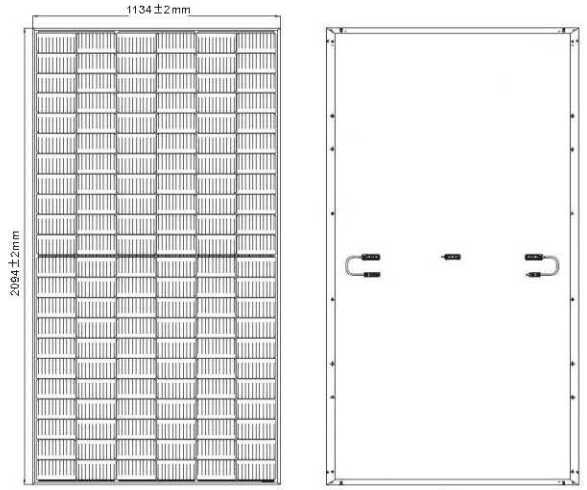
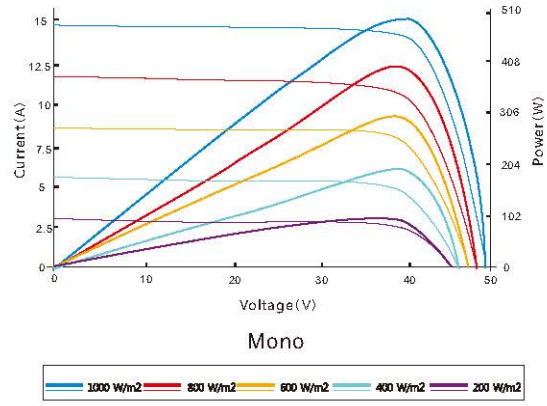
Electrical Characteristics

STC	NES132-7-480M	NES132-7-485M	NES132-7-490M	NES132-7-495M	NES132-7-500M	NES132-7-505M
Maximum Power(Pmax)	480W	485W	490W	495W	500W	505W
Optimum Operating Voltage(Vmp)	37.62V	37.81V	37.99V	38.17V	38.35V	38.53V
Optimum Operating Current(Imp)	12.76A	12.83A	12.90A	12.97A	13.04A	13.11A
Open Circuit Voltage(Voc)	45.07V	45.20V	45.33V	45.46V	45.59V	45.72V
Short Circuit Current(Isc)	13.65A	13.72A	13.79A	13.86A	13.93A	14.00A
Module Efficiency	20.21%	20.42%	20.64%	21.06%	20.37%	21.27%
Operating Module Temperature	-40°C to +85°C					
Maximum System Voltage	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 irradiation intensity of 800W/m^2 (AM 1.5, 25°C), 95.5% or higher of the STC efficiency(1000W/m^2) is achieved.

Mechanical Characteristics

Solar Cell	182mm MBB Monocrystalline silicon cells
No. of Cells	132(6x11x2)
Dimensions	2094±2mmx1134±2mmx35±1mm
Weight	26.3kg±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	45±2°C
Temperature Coefficient of Pmax	-0.350%/°C
Temperature Coefficient of Voc	-0.275%/°C
Temperature Coefficient of Isc	0.045%/°C

Packing Configuration(35mm)

Per Pallet	30Pieces
Per Container (20' GP)	250Pieces
Per Container (40' HQ)	690Pieces

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

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