

EA-ZLK-BE-MP-144 SERIES

Energy America 9BB Half-Cell Light-Weight Double Glass Monocrystalline PERC PV Module

430W | 435W | 440W | 445W | 450W | 455W





9BB technology decreases the distance between bus bars and finger grid line which is a benefit to power increase

Better Weak Illumination Response

More power output in weak light condition, such as haze, clouds, and early morning

Anti PID

Limited power degradation caused by PID effect is guaranteed under strict testing condition for mass production

High Wind & Snow Resistance

5400 Pa Snow Load | 2400 Pa Wind Load

30 Years Power Warranty

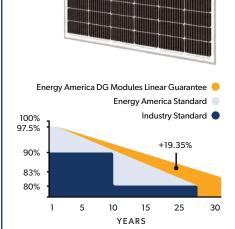
After 30 years our solar panel keeps at least 80% of its initial power output

Durable Materials

Advanced manufacturing technology minimizes chances of micro-cracks resulting from impact or heat

Ruggedized Construction

Built to withstand real-world conditions. Rated for heavy snow loads up to 5400 Pa and wind loads up to 2400 Pa





























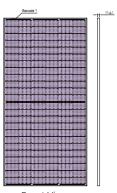
Since 2013, EA products have been constantly contributing clean energy to our planet. As a globally recognized innovator, our success in production, technological development, quality control, and product performance distinguishes EA as one of the most reliable solar companies in the world. Designed in the United States for global applications, reliability content and industry protection leading at 30 years product and power warranty. Compatible countries include Northern & Latin America, Asia South Pacific, Middle East, African Region, and Indian Territory.

EA-ZLK-BE-MP-144 SERIES

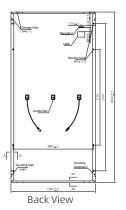
Energy America 9BB Half-Cell Light-Weight Double Glass Monocrystalline PERC PV Module

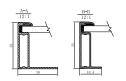


DIMENSIONS (MM)

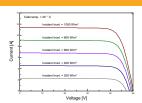


Front View

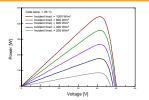




I-V CURVES OF PV MODULE (445W)



P-V CURVES OF MODULE (445W)



ELECTRICAL CHARACTERISTICS | STC*

Nominal Power Watt Pmax (W)**	430	435	440	445	450	455
Power Output Tolerance Pmax (%)	0~+3	0~+3	0~+3	0~+3	0~+3	0~+3
Maximum Power Voltage Vmp (V)	40.60	40.80	41.00	41.20	41.40	41.60
Maximum Power Current Imp (A)	10.60	10.67	10.74	10.81	10.87	10.94
Open Circuit Voltage Voc (V)	49.50	49.70	49.90	50.10	50.30	50.50
Short Circuit Current Isc (A)	11.19	11.26	11.33	11.40	11.46	11.53
Module Efficiency (%)	19.78	20.01	20.24	20.47	20.70	20.93

^{*}STC (Standard Test Condition): Irradiance 1000W/m², Module Temperature 25°, AM 1.5 | ** Measuring tolerance: ±3%

ELECTRICAL CHARACTERISTICS | NMOT*

Maximum Power Pmax (Wp)	321.50	325.20	328.90	332.70	336.10	339.80
Maximum Power Voltage Vmpp (V)	37.90	38.10	38.20	38.40	38.60	38.80
Maximum Power Current Imp (A)	8.49	8.54	8.60	8.66	8.70	8.76
Open Circuit Voltage Voc (V)	46.20	46.40	46.60	46.70	46.90	47.10
Short Circuit Current Isc (A)	9.04	9.09	9.15	9.21	9.25	9.31

^{*}NMOT(Nominal module operating temperature):Irradiance 800W/m²,Ambient Temperature 20°, AM 1.5, Wind Speed 1m/s

MECHANICAL DATA

Solar Cells Mono PERC Cells Orientation 144 (6x24)

Module Dimension 2094×1038×35 mm (With Frame)

Weight

Glass 3.2 mm, High Transmission, AR Coated Heat Strengthened Glass

Junction Box IP 68, 3 diodes Cables 4 mm², 350 mm MC4-compatible Connectors

TEMPERATURE RATING

NMOT 44°C±2°C -0.36%/°C Temperature Coefficient of Pmax Temperature Coefficient of Voc -0.29%/°C Temperature Coefficient of Isc 0.05%/°C

WORKING CONDITIONS

1500 V DC Maximum System Voltage -40°C~+85°C Operating Temperature 20 A Maximum Series Fuse

Maxmum Load (snow/wind) 5400 Pa / 2400 Pa

*Do not connect Fuse in Combiner Box with two or more strings in parallel connection
*Remark:Electrical data in this catalog do not refer to a singel module and they are not part of the offer.They only serve focr omparison among different module types

PACKAGING CONFIGURATION

30 Piece/Box Piece/Container (40'HQ) 660 Piece/Container (with additional small package)

Please read safety and installation instructions before using this product. Subject to change without prior notice.