EA-ZLK-BIFI-QA-144 SERIES

Energy America 10BB Half-Cell Bifacial Light-Weight Double Glass Monocrystalline PERC PV Module

520W | 525W | 530W | 535W | 540W | 545W



Excellent Cells Efficiency

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

Bifacial Technology

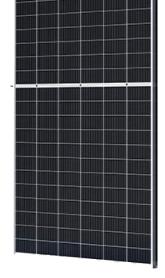
Enables additional energy harvesting from rear side (up to 25%)

Durable Materials

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

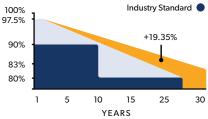
Ruggedized Construction

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



Energy America DG Modules Linear Guarantee 🧲

Energy America Standard



30 YEAR Product Guarantee

30 YEAR Output Guarantee





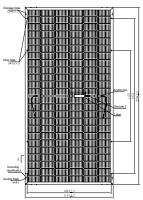
Since 2013, EA products have been constantly contributing clean energy to our planet. As a globally recognized innovator, our success in production, technological development, quality control, and product performance distinguishes EA as one of the most reliable solar companies in the world. Designed 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.

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DIMENSIONS (MM)

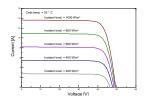




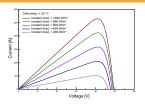
Back View



I-V CURVES OF PV MODULE (530W)







ELECTRICAL CHARACTERISTICS | STC*

Nominal Power Watt Pmax (W)**	520	525	530	535	540	545	
Power Output Tolerance Pmax (%)	0~+3	0~+3	0~+3	0~+3	0~+3	0~+3	
Maximum Power Voltage Vmp (V)	40.70	40.90	41.10	41.30	41.50	41.70	
Maximum Power Current Imp (A)	12.79	12.85	12.91	12.96	13.02	13.07	
Open Circuit Voltage Voc (V)	49.00	49.20	49.40	49.60	49.80	50.00	
Short Circuit Current Isc (A)	13.53	13.59	13.65	13.71	13.77	13.83	
Module Efficiency (%)	20.34	20.54	20.74	20.93	21.13	21.32	

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

ELECTRICAL CHARACTERISTICS | NMOT*

Maximum Power Pmax (Wp)	388.80	392.70	396.40	399.90	403.60	406.80
Maximum Power Voltage Vmpp (V)	37.90	38.00	38.20	38.40	38.50	38.80
Maximum Power Current Imp (A)	10.26	10.33	10.38	10.42	10.47	10.49
Open Circuit Voltage Voc (V)	45.80	46.00	46.20	46.30	46.50	46.70
Short Circuit Current Isc (A)	10.93	10.98	11.02	11.07	11.12	11.17

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

ELECTRICAL CHARACTERISTICS

WITH 25% REAR SIDE POWER GAIN

Front Power Pmax/W	520	525	530	535	540	545
Total Power Pmax/W)	650	656	663	669	675	681
Vmp/V (Total)	40.80	41.00	41.20	41.40	41.60	41.80
Imp/A (Total)	15.93	16.01	16.08	16.15	16.23	16.30
SVoc/V (Total)	49.10	49.30	49.50	49.70	49.90	50.10
Isc/A (Total)	16.87	16.95	17.02	17.10	17.17	17.25

MECHANICAL DATA

Solar Cells Cells Orientation Module Dimension Weight Glass Junction Box Cables Connectors Mono PERC 144 (6x24) 2256×1133×35 mm (With Frame) 33.5 kg 2.0 mm+2.0 mm, High Transmission, AR Coated Heat Strengthened Glass IP 68, 3 diodes 4 mm², 350 mm MC4-compatible

TEMPERATURE RATING

NMOT Temperature Coefficient of Pmax Temperature Coefficient of Voc Temperature Coefficient of Isc Refer.Bifacial Factor

44°C±2°C	
-0.35%/°C	
-0.29%/°C	
0.05%/°C	
70±5%	

WORKING CONDITIONS

Maximum System Voltage Operating Temperature Maximum Series Fuse Maxmum Load (snow/wind) 1500 V DC -40°C~+85°C 30 A 5400 Pa / 2400 Pa

PACKAGING CONFIGURATION

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

30 600

nall package) /

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