EA-ZLK-RA-5B-144 SERIES

Energy America 5BB Half-Cell Light-Weight Double Glass Polycrystalline PERC PV Module

335W | 340W | 345W | 350W | 355W | 360W

DESIGNED, MACHINED AND ASSEMBLED IN THE USA

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
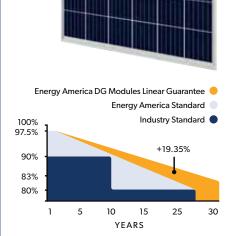5400 Pa Snow Load | 2400 Pa Wind Load

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

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
Industry Standard

100%
97.5%
90%
83%
80%

+19.35%

1   5   10   15   25   30
YEARS

30 YEAR Product Guarantee

30 YEAR Output Guarantee

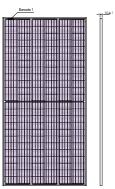**0.5** PERCENT Annual Degradation Over 30 Years

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.
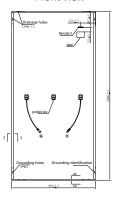
ea-global.us // info@ea-global.us // +1 650-332-8102 // 1 Sansome St. San Francisco, CA 94104

EA-ZLK-RA-5B-144 SERIES

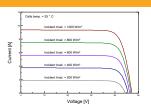Energy America 5BB Half-Cell Light-Weight Double Glass Polycrystalline PERC PV Module

DIMENSIONS (MM)

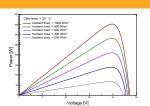Barcode 1

Front View

Drainage holes
16-Ø×3
Barcode 2
label

junction box

Grounding holes   Grounding identification

Back View

A-A
12:1

B-B
12:1

I-V CURVES OF PV MODULE (350W)

Cells temp. = 25 ° C

Incident Irrad. = 1000 W/m²
Incident Irrad. = 800 W/m²
Incident Irrad. = 600 W/m²
Incident Irrad. = 400 W/m²
Incident Irrad. = 200 W/m²

Current [A]

Voltage [V]

P-V CURVES OF PV MODULE (350W)

Cells temp. = 25 ° C

Incident Irrad. = 1000 W/m²
Incident Irrad. = 800 W/m²
Incident Irrad. = 600 W/m²
Incident Irrad. = 400 W/m²
Incident Irrad. = 200 W/m²

Power [W]

Voltage [V]

ELECTRICAL CHARACTERISTICS | STC*

Nominal Power Watt Pmax (W)**	335	340	345	350	355	360
Power Output Tolerance Pmax (%)	0~+3	0~+3	0~+3	0~+3	0~+3	0~+3
Maximum Power Voltage Vmp (V)	37.90	38.10	38.30	38.50	38.70	38.90
Maximum Power Current Imp (A)	8.84	8.93	9.01	9.10	9.18	9.26
Open Circuit Voltage Voc (V)	46.60	46.80	47.00	47.20	47.40	47.60
Short Circuit Current Isc (A)	9.16	9.22	9.28	9.37	9.45	9.53
Module Efficiency (%)	16.89	17.14	17.39	17.64	17.89	18.15

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

ELECTRICAL CHARACTERISTICS | NMOT*

Maximum Power Pmax (Wp)	248.30	252.60	256.40	260.30	264.00	267.70
Maximum Power Voltage Vmpp (V)	35.50	35.80	36.10	36.30	36.50	36.70
Maximum Power Current Imp (A)	6.99	7.05	7.10	7.17	7.23	7.30
Open Circuit Voltage Voc (V)	43.00	43.20	43.40	43.40	43.50	43.90
Short Circuit Current Isc (A)	7.42	7.46	7.51	7.59	7.65	7.72

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

MECHANICAL DATA

Solar Cells	POLY
Cells Orientation	144（6×24）
Module Dimension	2000×992×30 mm (With Frame)
Weight	25.5 kg
Glass	2.0 mm+2.0 mm, High Transmission, AR Coated Heat Strengthened Glass
Junction Box	IP 68, 3 diodes
Cables	4 mm², 350 mm
Connectors	MC4-compatible

TEMPERATURE RATING

NMOT	45°C±2°C
Temperature Coefficient of Pmax	-0.39%/°C
Temperature Coefficient of Voc	-0.31%/°C
Temperature Coefficient of Isc	0.06%/°C

WORKING CONDITIONS

Maximum System Voltage	1500 V DC
Operating Temperature	-40°C~+85°C
Maximum Series Fuse	15 A
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

Piece/Box	36
Piece/Container (40'HQ)	792
Piece/Container (with additional small package)	/

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