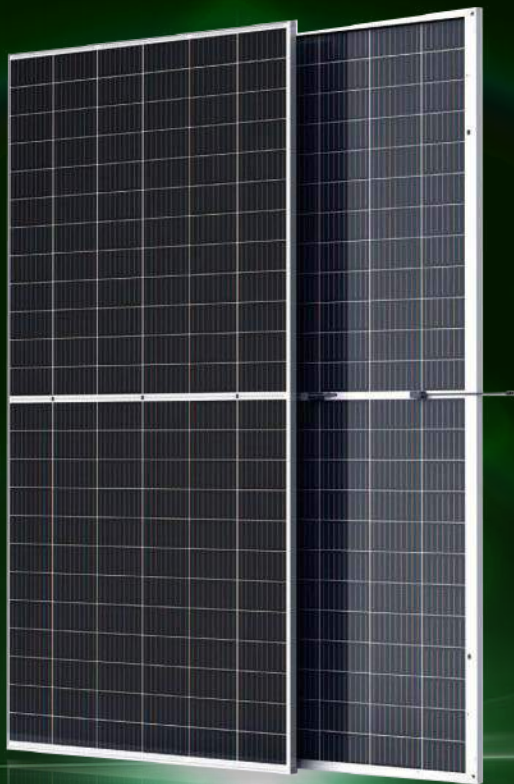




BQ SOLAR
Better Quality · More profits



BQ-144M

390~410W
Power output

144
Cells Mono-crystalline

0~+5W
Tolerance

20.38%
The Highest Efficiency

BQ-144M HALF-CELL series is produced with high efficiency multi-busbar cells, which can reduce the module internal power loss to improve its conversion efficiency, as well as lower the failure risk caused by cracks and broken busbar to enhance the module reliability. Combined with half-cell technology, the module is highly resistant to hot-spot crisis caused by shadow effect.



KEY FEATURES



Multi Grid battery Technology; higher output power, effectively reduce the cost of single watt system



Significantly Lower the Risk of Hot Spot; Reduce power loss, Increase module output power



Half-cut Cell technology; New circuit design. Lower internal current, Lower resistance Loss



Drainaging Designs; To prevent defoming and fracturing due to freezing or other forces



Excellent Anti-PID Performance; Stringent quality control, High reliability, internal testing far beyond the industry standards

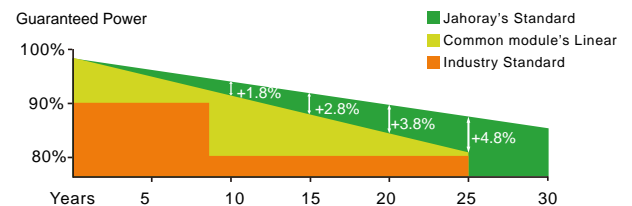
LINEAR PERFORMANCE WARRANTY

12
YEAR

Product Warranty

30
YEAR

30 year Linear Power Warranty



Additional value from jahoray's Linear Warranty

0.5% Annual Degradation over 30 years



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ELECTRICAL DATA(STC)

Rated Power in Watts-Pmax(Wp)	390	395	400	405	410
Open Circuit Voltage-Voc(V)	49.16	49.32	49.55	49.71	49.92
Short Circuit Current-Isc(A)	10.14	10.26	10.35	10.45	10.54
Maximum Power Voltage-Vmp (V)	40.82	40.96	41.21	41.35	41.46
Maximum Power Current-Imp(A)	9.55	9.65	9.72	9.80	9.89
Module Efficiency (%)	19.38	19.63	19.88	20.13	20.38

STC Irradiance 1000 W/m², Cell Temperature 25°C, Air Mass AM1.5 according to EN 60904-3

ELECTRICAL DATA(NOCT)

Maximum Power-Pmax (Wp)	289	293	297	300	304
Open Circuit Voltage-Voc (V)	45.41	45.56	45.77	45.92	46.11
Short Circuit Current-Isc (A)	8.20	8.29	8.37	8.45	8.52
Maximum Power Voltage-Vmp(V)	38.63	38.76	39.00	39.13	39.24
Maximum Power Current-Imp(A)	7.48	7.56	7.62	7.68	7.75

NOCT: Irradiance at 800W/m², Ambient Temperature 20°C, Wind Speed 1 m/s

MECHANICAL DATA

Solar Cells	Mono-crystalline 158.75*79.375mm
Cell Configuration	144Cells (6x24)
Module Dimensions	2008x1002x35mm
Weight	23KG
Front Cover	3.2mm Tempered Glass
Frame Material	Anodized Aluminum Alloy
J-BOX	IP67, 3Diodes
Cable	4mm ² (IEC)/12AWG(UL), 900mm or customized
Connectors	MC4 Comparable

TEMPERATURE & MAXIMUM RATINGS

Nominal Operating Cell Temperature(NOCT)	45°C± 2°C
Temperature Coefficient of Voc	-0.32%/°C
Temperature Coefficient of Isc	0.05%/°C
Temperature Coefficient of Pmax	-0.40%/°C
Operational Temperature	-40~85°C
Maximum System Voltage	1500V(IEC)
Max Series Fuse Rating	20A

PACKAGING CONFIGURATION

Packing Type	40HQ
Piece/Pallet	726pcs
Pallet/Container	31pcs/pallet, 2pcs/carton
Piece/Container	22pallets + 22cartons

