



BQ SOLAR

Better Quality · More profits



BQ72-166M

435~455W

Power output

144

Cells Mono-crystalline

0~+5W

Tolerance

20.9%

The Highest Efficiency

BQ166M 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



High module conversion efficiency (up to 20.9%), through superior manufacturing technology



Guaranteed 0~+5W positive power output tolerance ensures high reliability



Anti-reflective, hydrophobic coating improves light absorption and reduces surface dust



Excellent performance under low light environments (mornings, evenings and cloudy days)



Suitable for harsh environments, such as coasts, deserts and lakes. Withstand high level of wind loads (2400pa) and snow loads (5400pa)

LINEAR PERFORMANCE WARRANTY

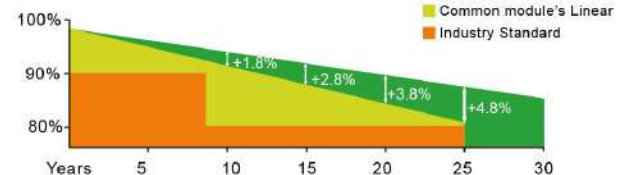
12
YEAR

Product Warranty

30
YEAR

30 year Linear Power Warranty

Guaranteed Power



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)	435	440	445	450	455
Open Circuit Voltage-Voc(V)	49.60	49.80	49.90	50.00	50.20
Short Circuit Current-Isc(A)	11.53	11.60	11.72	11.83	11.85
Maximum Power Voltage-Vmp (V)	40.70	40.90	41.00	41.10	41.30
Maximum Power Current-Imp(A)	10.70	10.77	10.86	10.96	11.06
Module Efficiency (%)	22.20	22.40	22.60	22.80	23.00

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)	326	330	333	337	341
Open Circuit Voltage-Voc (V)	46.60	46.80	46.90	47.00	47.20
Short Circuit Current-Isc (A)	10.37	10.44	10.58	10.64	10.66
Maximum Power Voltage-Vmp(V)	38.20	38.40	38.50	38.60	38.80
Maximum Power Current-Imp(A)	8.53	8.59	8.64	8.73	8.78

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

MECHANICAL DATA

Solar Cells	Mono-crystalline 166*83mm , 9BB
Cell Configuration	144Cells (6x24)
Module Dimensions	2094x1038x35mm
Weight	23.5KGS
Front Cover	3.2mm Tempered Glass
Frame Material	Anodized Aluminum Alloy
J-BOX	IP67 or IP68, 3Diodes
Cable	4mm ² (IEC)/12AWG(UL), 900mm or customized
Connectors	MC4 or 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	-0.39%/°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

