



BQ SOLAR

Better Quality · More profits



BQ50-210M

500~520W

Power output

150

Cells Mono-crystalline

0~+5W

Tolerance

23.5%

The Highest Efficiency

BQ50-210M applies 210mm large silicon wafer technology and innovative three-segment module technology to increase the power to 520W, and the use of close-packed technology increases the module efficiency to 23.5%. Multi-bus grid technology is applied to effectively improve optical utilization and reduce internal current consumption.



KEY FEATURES



High module conversion efficiency (up to 23.5%), 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

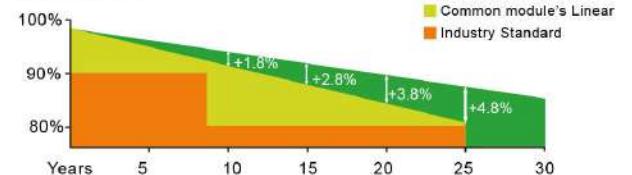
12
YEAR

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)	500	505	510	515	520
Open Circuit Voltage-Voc(V)	51.70	51.90	52.10	52.30	52.50
Short Circuit Current-Isc(A)	12.28	12.35	12.42	12.49	12.56
Maximum Power Voltage-Vmp (V)	42.80	43.00	43.20	43.40	43.60
Maximum Power Current-Imp(A)	11.69	11.75	11.81	11.87	12.93
Module Efficiency (%)	20.70	21.00	21.20	21.40	21.60

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)	377	381	385	389	393
Open Circuit Voltage-Voc (V)	48.60	48.80	49.00	49.20	49.40
Short Circuit Current-Isc (A)	9.90	9.95	10.10	10.70	11.12
Maximum Power Voltage-Vmp(V)	40.40	40.60	40.80	41.00	41.20
Maximum Power Current-Imp(A)	9.33	9.38	9.44	9.49	9.54

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

MECHANICAL DATA

Solar Cells	Mono-crystalline 210*70mm , 12BB
Cell Configuration	150Cells (5x30)
Module Dimensions	2187x1102x35mm
Weight	26.5KG
Front Cover	3.2mm Tempered Glass
Frame Material	Anodized Aluminum Alloy
J-BOX	IP68
Cable	4mm ² (IEC) Length:(+)250mm,(-)350mm
Connectors	MC4 or MC4 Comparable

TEMPERATURE & MAXIMUM RATINGS

Nominal Operating Cell Temperature(NOCT)	43°C± 2°C
Temperature Coefficient of Voc	-0.25%/°C
Temperature Coefficient of Isc	0.04%/°C
Temperature Coefficient of Pmax	-0.34%/°C
Operational Temperature	-40~+85°C
Maximum System Voltage	1500V(IEC)
Max Series Fuse Rating	20A

PACKAGING CONFIGURATION

Packing Type	40HQ
Piece/Pallet	620pcs
Pallet/Container	31pcs/pallet
Piece/Container	26pallets

