



BQ SOLAR

Better Quality • More profits



BQ144-182BM

530~550W

Power output

144

Cells Mono-crystalline

0~+5W

Tolerance

21.3%

The Highest Efficiency

BQ144-182BM 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 21.3%), 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)

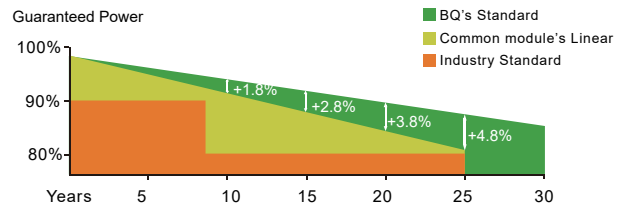
LINEAR PERFORMANCE WARRANTY

12
YEAR

Product Warranty

30
YEAR

30 year Linear Power Warranty



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ELECTRICAL DATA(STC)

Rated Power in Watts-Pmax(Wp)	530	535	540	545	550
Open Circuit Voltage-Voc(V)	48.77	49.02	49.24	49.17	49.70
Short Circuit Current-Isc(A)	13.93	13.99	14.06	14.12	14.09
Maximum Power Voltage-Vmp (V)	40.99	41.19	41.38	41.58	41.78
Maximum Power Current-Imp(A)	12.93	12.99	13.05	13.11	13.17
Module Efficiency (%)	20.50	20.70	20.90	21.10	21.30

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)	396.2	399.9	403.6	407.4	410.1
Open Circuit Voltage-Voc (V)	46.26	46.40	46.54	46.68	46.82
Short Circuit Current-Isc (A)	11.07	11.12	11.17	11.23	11.29
Maximum Power Voltage-Vmp(V)	38.58	38.72	38.86	39.00	39.14
Maximum Power Current-Imp(A)	10.27	10.33	10.39	10.45	10.51

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

MECHANICAL DATA

Solar Cells	Mono-crystalline 182*91mm
Cell Configuration	144Cells (6x24)
Module Dimensions	2279x1134x35mm
Weight	32.5KG
Front Cover	2.0mm Tempered Glass
Frame Material	Anodized Aluminum Alloy
J-BOX	IP68
Cable	4mm ² (IEC)/12AWG(UL), 300mm or customized
Connectors	MC4 or MC4 Comparable

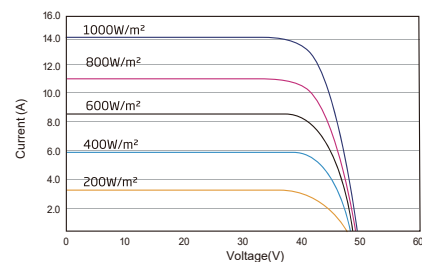
TEMPERATURE & MAXIMUM RATINGS

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	25A

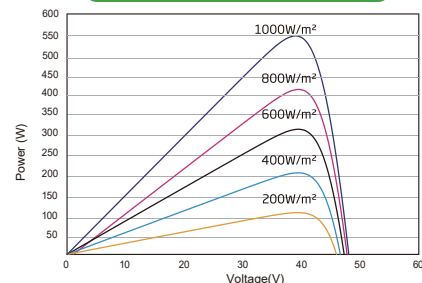
PACKAGING CONFIGURATION

Container Size	40HQ
Modules Per Container	620pcs
Modules Per Pallet/Carton	31pcs/pallet
Pallet/Carton Per Container	20pallets

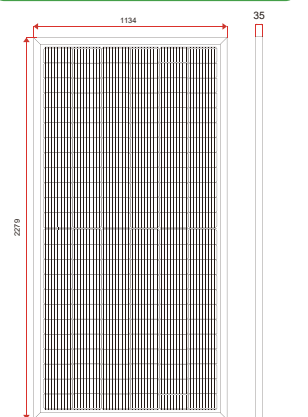
I-V CURVES OF PV MODULE



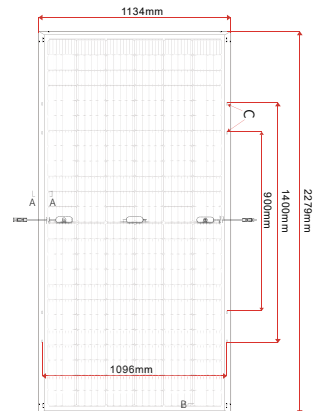
P-V CURVES OF PV MODULE



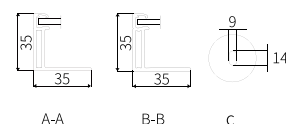
DIMENSIONS OF PV MODULE(mm)



Front View



Back View



A-A

B-B

C

