



BQ SOLAR

Better Quality • More profits



BQ132-166M

400~420W

Power output

132

Cells Mono-crystalline

0~+5W

Tolerance

20.8%

The Highest Efficiency

BQ132-166M 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



Up to 420W front power and 20.8% module efficiency with half-cut and MBB (Multi Busbar) technology bringing more BOS savings. Reduce BOS cost with higher power bin and 1500V system voltage



Better anti-shading performance and lower operating temperature.



High standard Production, thinner wires that appear all black at a distance



Excellent IAM and low light performance. Lower temp co-efficient (-0.34%) and NOCT bring more energy leading to lower LCOE.



Ensured PID resistance through cell process and module material control. Resistant to salt, acid and ammonia. Mechanical performance: Up to 5400 Pa positive load and 2400 Pa negative load

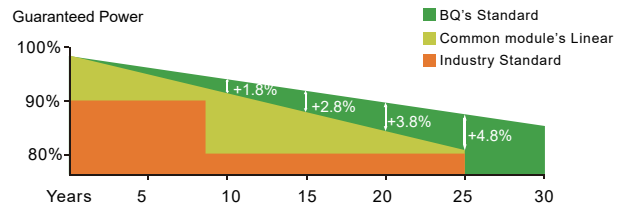
LINEAR PERFORMANCE WARRANTY

12
YEAR

Product Warranty

30
YEAR

30 year Linear Power Warranty



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ELECTRICAL DATA(STC)

Rated Power in Watts-Pmax(Wp)	400	405	410	415	420
Open Circuit Voltage-Voc(V)	44.8	45.0	45.2	45.4	45.6
Short Circuit Current-Isc(A)	11.45	11.52	11.59	11.66	11.73
Maximum Power Voltage-Vmp (V)	37.60	37.80	38.00	38.20	38.40
Maximum Power Current-Imp(A)	10.64	10.72	10.79	10.87	10.94
Module Efficiency (%)	20.00	20.20	20.40	20.60	20.80

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)	300.7	304.3	308	311.9	315.5
Open Circuit Voltage-Voc (V)	42.14	42.32	42.50	42.69	42.88
Short Circuit Current-Isc (A)	9.28	9.33	9.38	9.44	9.52
Maximum Power Voltage-Vmp(V)	35.01	35.19	35.37	35.56	35.74
Maximum Power Current-Imp(A)	8.59	8.65	8.71	8.77	8.83

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

MECHANICAL DATA

Solar Cells	Half-Cell Mono 166x83mm, 9BB
Cell Configuration	132 Cells (6*22)
Module Dimensions	1950x1048x35mm
Weight	22KG
Front Cover	3.2 mm Tempered Glass
Frame	35 mm Anodized Aluminium Alloy
J-BOX	IP 68 rated
Cable	4mm ² (IEC)/12AWG(UL), 300mm or customized
Connectors	MC4 EVO2/TS4*

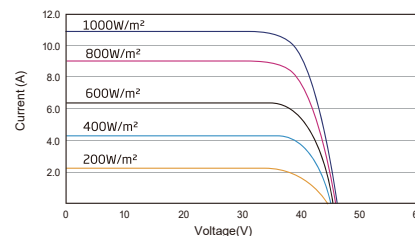
TEMPERATURE & MAXIMUM RATINGS

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

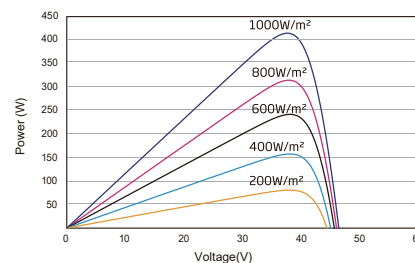
PACKAGING CONFIGURATION

Container Size	40HQ
Modules Per Container	804pcs
Modules Per Pallet/Carton	31pcs/pallet, 5pcs/carton
Pallet/Carton Per Container	24pallets + 12cartons

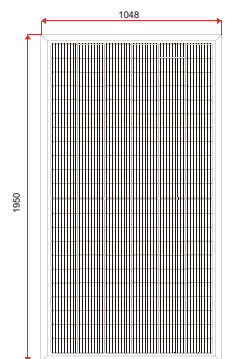
I-V CURVES OF PV MODULE



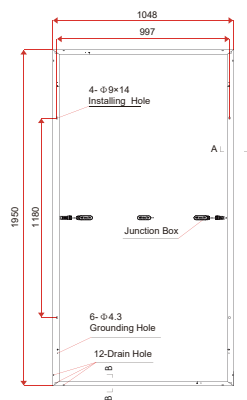
P-V CURVES OF PV MODULE



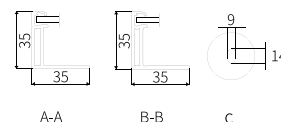
DIMENSIONS OF PV MODULE(mm)



Front View



Back View



A-A

B-B

C

