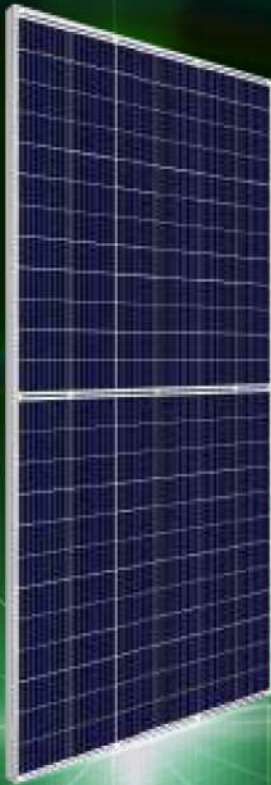




BQ SOLAR

Better Quality · More profits



BQ-144P

405W~425W

Power output

144

Cells Poly-crystalline

0~+5W

Tolerance

19.2%

The Highest Efficiency

Polycrystalline 410 Watt solar panel higher conversion efficiency ,higher capacity and power output performance per unit area. 24 % higher power than conventional modules.Up to 4.5 % lower LCOE, Up to 2.7 % lower system cost.



KEY FEATURES



24 % higher power than conventional modules



Minimizes micro-crack impacts



Lower internal current, lower hot spot temperature



Better shading tolerance



Heavy snow load up to 5400 Pa, wind load up to 3600 Pa*

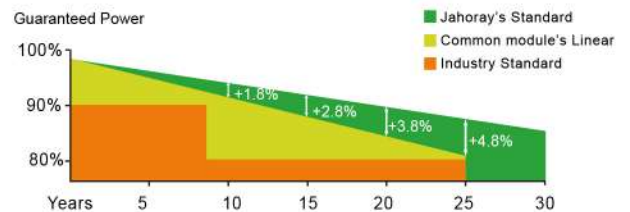
LINEAR PERFORMANCE WARRANTY

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)	405	410	415	420	425
Open Circuit Voltage-Voc (V)	47.4	47.6	47.8	48.0	48.2
Short Circuit Current-Isc (A)	10.98	11.06	11.14	11.26	11.29
Opt. Operating Voltage (V)	38.9	39.1	39.3	39.5	39.7
Opt. Operating Current (A)	10.42	10.49	10.56	10.64	10.71
Module Efficiency (%)	18.3	18.6	18.8	19.0	19.2

* Under Standard Test Conditions (STC) of irradiance of 1000 W/m², spectrum AM 1.5 and cell temperature of 25°C.

ELECTRICAL DATA(NOCT)

Maximum Power-Pmax (Wp)	303	307	310	314	318
Open Circuit Voltage-Voc (V)	44.7	44.8	45.0	45.2	45.4
Short Circuit Current-Isc (A)	8.85	8.92	8.98	9.08	9.10
Opt. Operating Voltage (V)	36.3	36.5	36.7	36.9	37.1
Opt. Operating Current (A)	8.33	8.39	8.45	8.51	8.57

* Under Nominal Module Operating Temperature (NMOT), irradiance of 800 W/m², spectrum AM 1.5, ambient temperature 20°C, wind speed 1 m/s.

MECHANICAL DATA

Solar Cells	Poly-crystalline
Cell Configuration	144 Cells
Module Dimensions	2094x1038x35mm
Weight	24.3KG
Front Cover	3.2 mm tempered glass with anti-ref-lective coating
Frame	Anodized aluminium alloy
J-BOX	IP68, 3 bypass diodes
Cable	4 mm ² (IEC), 12 AWG (UL)
Connectors	T4 series or MC4-EVO2

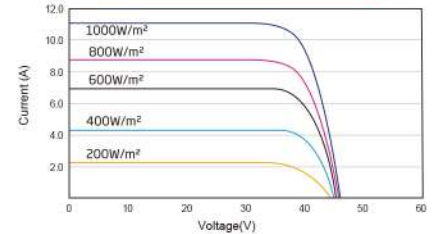
TEMPERATURE & MAXIMUM RATINGS

Nominal Operating Cell Temperature(NOCT)	43°C± 2°C
Temperature Coefficient of Voc	-0.28%/°C
Temperature Coefficient of Isc	0.05%/°C
Temperature Coefficient of Pmax	-0.36%/°C
Nominal Module Operating Temperature	41 ± 3°C
Maximum System Voltage	1500V(IEC)
Max Series Fuse Rating	20A

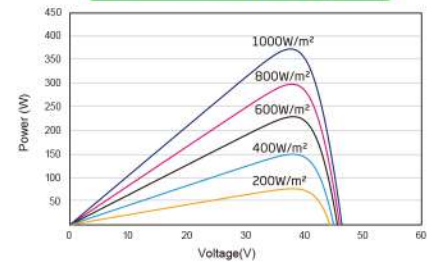
PACKAGING CONFIGURATION

Packing Type	40HQ
Piece/Pallet	737pcs
Pallet/Container	31pcs/pallet, 5pcs/carton
Piece/Container	22pallets + 11cartons

I-V CURVES OF PV MODULE(400W)



P-V CURVES OF PV MODULE(400W)



DIMENSIONS OF PV MODULE(mm)

