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EnergyPal

Solar Panel Guide Specification Data Sheet

BQ Solartech Co., Ltd.

BQ-144-6 395-415W

BQ-144-6-400P

Also available on the web at
EnergyPal.com/bq-solartech-co-ltd-solar-panels/bq-144-6-400p



BQ-144-6
395-415_w



KEY FEATURES



Global, T1or 1 bankable brand, with independently certified state-of-the-art automated manufacturing



Industry leading lowest thermal co-efficient of power



Excellent PID resistance



Outstanding power output capability at low irradiance



Module Imp binning radically reduces string mismatch losses



Triple 100% Electroluminescence (EL) tests minimize



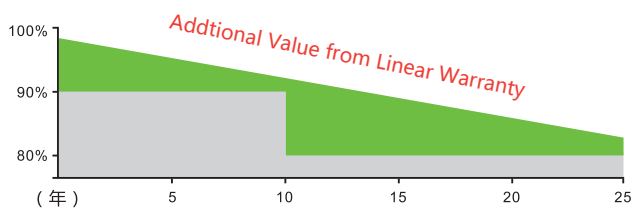
Warranted reliability and stringent quality assurances well beyond certified requirements



Certified to withstand severe environmental conditions

- ◆ Anti-reflective & anti-soiling surface minimise power loss from dirt and dust
- ◆ Severe salt mist, ammonia & blown sand resistance, for seaside, farm and desert environments
- ◆ Excellent mechanical load 2400Pa & snowload 5400Pa resistance

Warranty



12 Years Guarantee on product material and workmanship

25 Years linear power output warranty

Product Certificates



BQ SOLARTECH CO., LTD

+86 13758135482 sales@bqsolartech.com
www.bqsolartech.com

Electrical Data(STC)

Model Number	BQ-144-6-395P	BQ-144-6-400P	BQ-144-6-405P	BQ-144-6-410P	BQ-144-6-415P
Rated Power in Watts-Pmax(Wp)	395	400	405	410	415
Open Circuit Voltage-Voc(V)	48.45	48.60	48.75	48.90	49.00
Short Circuit Current-Isc(A)	10.4	10.50	10.60	10.70	10.80
Maximum Power Voltage-Vmpp(V)	40.5	40.45	40.55	40.65	40.70
Maximum Power Current-Impp(A)	9.80	9.90	10.00	10.10	10.20
Module Efficiency (%)*	19.4	19.7	19.9	20.2	20.4

Irradiance 1000 W/m², Cell Temperature 25° C, Air Mass AM1.5 according to EN60904-3.

* Module Efficiency (%): Round-off to the nearest number

Electrical characteristics with different rear side power gain (reference to 405Wp front)

Bifacial Gain	Pmax/W	Voc/V	ISC/A	Vmpp/V	Impp/A
5%	426	48.75	11.13	40.55	10.50
10%	446	48.75	11.66	40.55	11.00
15%	466	48.75	12.19	40.55	11.50
20%	487	48.75	12.72	40.55	12.00
25%	507	48.75	13.25	40.55	12.50
30%	527	48.75	13.78	40.55	13.00

*Bifacial Gain: The additional gain from the rear side compared to the power of the front side at the standard test condition. It depends on mounting (structure, height, tilt angle etc.) and albedo of the ground.

Electrical Data(NMOT)

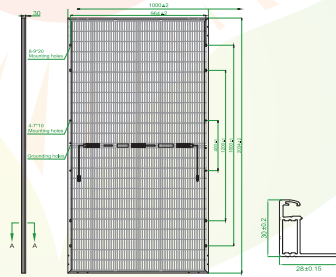
Model Number	BQ-144-6-395P	BQ-144-6-400P	BQ-144-6-405P	BQ-144-6-410P	BQ-144-6-415P
Maximum Power-Pmax (Wp)	295.6	299.3	303.1	306.9	309.2
Open Circuit Voltage-Voc (V)	44.60	44.70	44.90	44.99	45.63
Short Circuit Current-Isc (A)	8.53	8.61	8.69	8.77	8.80
Maximum Power Voltage-Vmpp (V)	37.00	37.05	37.14	37.24	37.30
Maximum Power Current-Impp (A)	8.00	8.08	8.16	8.24	8.29

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

Packaging Configuration

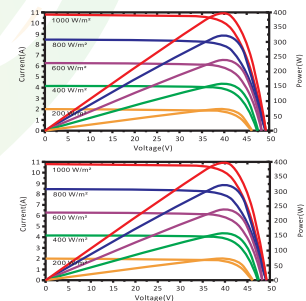
	40ft
Number of modules per container	770
Number of modules per pallet	35
Number of pallets per container	22
Packaging box dimensions (LxWxH) in mm	2100x1130x1135
Box gross weight[kg]	1000

Technical drawing



* All Dimensions in mm. * The above drawing is a graphical representation of the product.

I-V Curve



Mechanical Data

Solar cells	Polycrystalline, 9BB
Cell configuration	144片(6×12+6×12)
Module dimensions	2034×1000x30mm
Weight	27kg
Superstrate	High Transmission, Low Iron, Tempered ARC Glass
Substrate	White Back-sheet
Frame	Anodized Aluminium Alloy type 6063T5, Silver Color
J-Box	Potted, IP68, 1500VDC, 3 Schottky bypass diodes
Cables	4.0mm ² (12AWG), Positive(+)270mm, Negative(-)270mm
Connector	Risen Twinsel PV-SY02, 1P68

Temperature & Maximum Ratings

NMOT	45°C±2°
Temperature Coefficient of Voc	-0.29%/°C
Temperature Coefficient of Isc	0.05%/°C
Temperature Coefficient of Pmax	-0.37%/°
Operational Temperature	-40°C ~ +85°C
Maximum System Voltage	1500VDC
Max Series Fuse Rating	20A
Limiting Reverse Current	20A

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