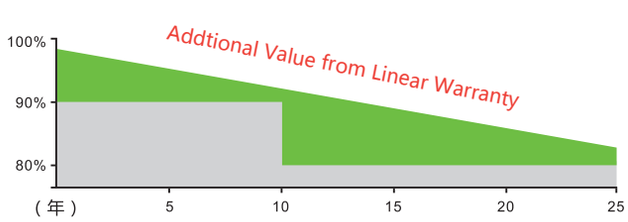
BQ-144-6

395-415w

KEY FEATURES

- Global,Tlor 1 bankable brand, with independently certifiod 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 mlst, ammonia & blown sand reslstance,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

ISO9001
ISO14001
OHSAS18001
IEC TS 62941

BQ SOLARTECH CO.,LTD

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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/m^2, 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 additionalgain 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 ofthe ground.

Electrical Data(NMOT)

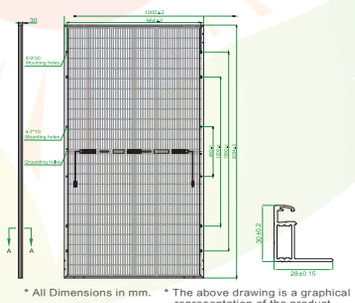
Model Number	BQ-144-6-395P	BQ-144-6-400P	BQ-144-6-405P	BQ-144-6-410P	BQ-144-6-415P
Maximum Power-Pmax (Wp)	295.6	299.3	303.1	306.9	309.2
Open Circuit Voltage-Voc (V)	44.60	44.70	44.90	44.99	45.63
Short Circuit Current-Isc (A)	8.53	8.61	8.69	8.77	8.80
Maximum Power Voltage-Vmpp (V)	37.00	37.05	37.14	37.24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

NMOT: Iradiance at 800 W/m^2, Ambient Temperature 20° C, Wind Speed 1 m/s.

Packaging Configuration

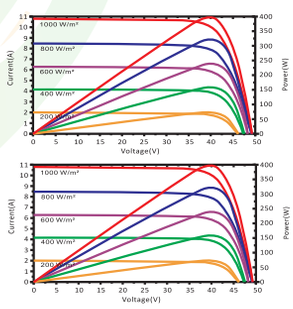
	40ft
Number of modules per container	770
Number of modules per pallet	35
Number of pallets per container	22
Packaging box dimensions (LxWxH)in mm	2100x1130x1135
Box gross weight[kg]	1000

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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