



LUXPOWER[®] **BC**

465~495W BIFACIAL DG

108 BC SERIES Black



Advanced:
BC + OBB



Value-Added:
Higher power, A+Anti-Shading



Aesthetic:
No Frontal Gridlines, Scenario Integration



Safe:
Prevent Localized Overheating,
Less Micro-Cracks

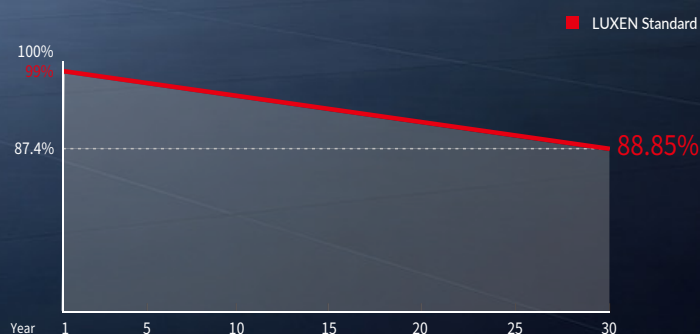


Stable:
POE Film, High Corrosion Resistance



Premium:
All-black design,
high-end residential aesthetic

Linear Performance Warranty



Insured By



Comprehensive Certificates

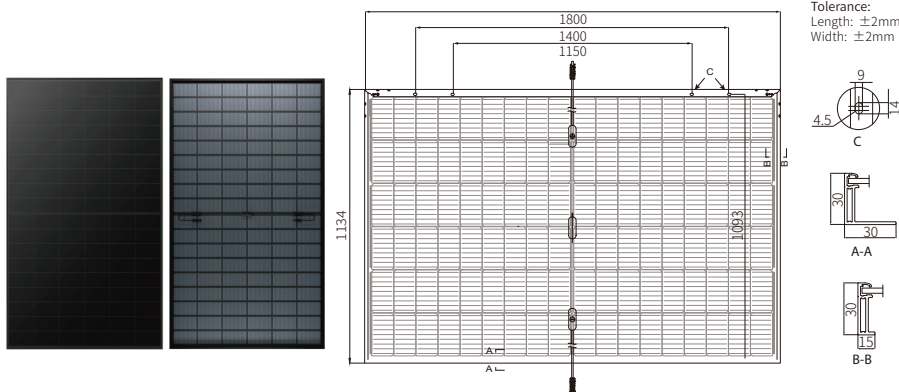
- ISO9001:2015 QMS
- ISO14001:2015 EMS
- ISO45001:2018 OHSMS
- IEC61215/IEC61730 Standard Quality



24.25%
MAX MODULE
EFFICIENCY**0~3%**
POWER
TOLERANCE**< 1%**
FIRST YEAR
POWER DEGRADATION**0.35%**
YEAR 2-30
POWER DEGRADATION**BC-CELL**
LOWER OPERATING
TEMPERATURE**MECHANICAL CHARACTERISTICS**

Units: mm

Cell Orientation	108 (6×18)
Junction Box	IP68, three diodes
Output Cable	4mm ² , +400, -200mm/±1200mm length can be customized
Glass	Dual glass 2.0mm semi-tempered glass +1.6mm semi-tempered glass
Frame	Black anodized aluminum alloy frame
Weight	23.5kg
Dimension	1800×1134×30mm
Packaging	36 pcs per pallet 216 pcs per 20' GP 864 pcs per 40' HC

**ELECTRICAL PARAMETERS**

POWER CLASS	LNAB-465BA		LNAB-470BA		LNAB-475BA		LNAB-480BA		LNAB-485BA		LNAB-490BA		LNAB-495BA	
	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT
Maximum Power (Pmax/W)	465	353	470	357	475	361	480	365	485	485	490	490	495	495
Open Circuit Voltage (Voc/V)	40.20	38.19	40.31	38.29	40.42	38.40	40.53	38.50	40.64	38.61	40.75	38.71	40.86	38.82
Short Circuit Current (Isc/A)	14.68	11.74	14.78	11.82	14.88	11.90	14.98	11.98	15.08	12.06	15.18	12.14	15.28	12.22
Voltage at Maximum Power (Vmp/V)	33.18	31.50	33.29	31.60	33.40	31.71	33.51	31.81	33.62	31.94	33.73	32.04	33.84	32.15
Current at Maximum Power (Imp/A)	14.02	11.22	14.13	11.30	14.23	11.39	14.33	11.47	14.43	11.54	14.53	11.62	14.63	11.70
Module Efficiency(%)	22.78		23.03		23.27		23.52		23.76		24.01		24.25	

STC: Irradiance 1000W/m², cell temperature 25°C, AM1.5GNMOT: Irradiance 800W/m², ambient temperature 20°C, wind speed 1m/s, AM1.5G**BIFACIAL OUTPUT-REAR SIDE POWER GAIN**

5%	Maximum power (Pmax)	488W	494W	499W	504W	509W	515W	520W
	Module Efficiency STC (%)	23.92%	24.18%	24.43%	24.69%	24.95%	25.21%	25.46%
15%	Maximum power (Pmax)	535W	541W	546W	552W	558W	564W	569W
	Module Efficiency STC (%)	26.20%	26.48%	26.76%	27.04%	27.32%	27.61%	27.89%
25%	Maximum Power (Pmax)	581W	588W	594W	600W	606W	613W	619W
	Module Efficiency STC (%)	28.48%	28.78%	29.09%	29.39%	29.70%	30.01%	30.31%

Operating Parameters

Operational Temperature	-40°C ~ +85°C
Power Output Tolerance	0 ~ 3%
Maximum System Voltage	DC1500V (IEC)
Maximum Series Fuse Rating	35A
Nominal Operating Cell Temperature	45±2°C
Protection Class	Class II
Bifaciality	70±5%
Fire Rating	IEC Class C

Mechanical Loading

Front Side Maximum Static Loading	5400Pa
Rear Side Maximum Static Loading	2400Pa
Hailstone Test	25mm Hailstone at the speed of 23m/s

Temperature Ratings (STC)

Temperature Coefficient of Isc	+0.050%/°C
Temperature Coefficient of Voc	-0.200%/°C
Temperature Coefficient of Pmax	-0.260%/°C

Note: The technical parameters included in this datasheet may have minor deviations, and Luxen does not guarantee absolute accuracy. Due to ongoing product innovation and enhancements, Luxen reserves the right to modify the information in this manual at any time without prior notice. Customers should obtain the latest version of the technical manual when signing the contract, and it shall be considered an integral part of the binding contract between the parties. Please note that qualified professionals should handle and install solar modules to ensure optimal module performance.

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