



TOPCon Bifacial Monocrystalline Module

LTB182-410-430B

430W

Maximum Power Output

22.0%

Maximum Module Efficiency

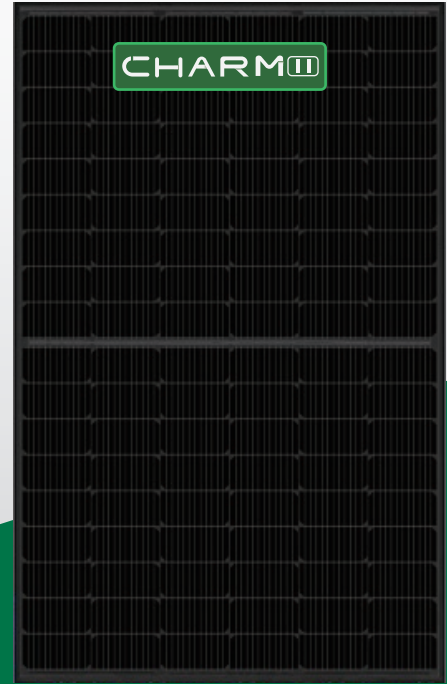
0~+5W

Power Output Guarantee

N-Type



10BB/16BB(182mm)



Selected encapsulating material and stringent production process control ensure the product is highly PID resistant and snail trails free



Ideal choice for large scale ground installation



Sand blowing test, salt mist test and ammonia test passed to endure harsh environments



Special cutting and soldering technology leads to low hotspot risk



Optimized system performance due to module level current sorting

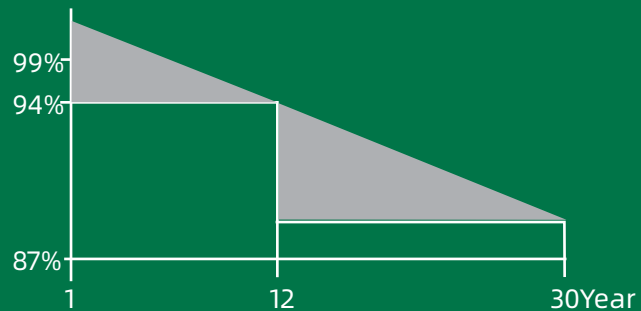


Highly transparent self-cleaning glass brings additional yield and easy maintenance

Deliver Reliable Performance Over Time

- Manufacturer of crystalline silicon photovoltaic modules
- Fully automatic facility and world-class technology
- Rigorous quality control to meet the highest standard: ISO9001:2015, ISO14001:2015 and OHSAS: 180012007
- Lested for harsh environments [salt mist, ammonia corrosion and sand blowing test: IEC 61701, IEC 62716. DIN EN 60068-2-68]
- Long term reliability tests

Linear Performance Warranty



12 Years Product Warranty
30 Years Linear Power Warranty



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Bifacial Monocrystalline Module

TOPCON 410-430B

Electrical Specification (STC*)

Maximum Power (Pmax/W)	410	415	420	425	430
Maximum Power Voltage (Vmp / V)	31.13	31.32	31.51	31.70	31.88
Maximum Power Current (Imp/A)	13.17	13.25	13.33	13.41	13.49
Open Circuit Voltage (Voc/V)	37.73	37.92	38.11	38.30	38.49
Short Circuit Current (Isc/A)	13.91	13.99	14.07	14.15	14.23
Module Efficiency (%)	21.00	21.25	21.51	21.76	22.02
Power Output Tolerance (w)			0→+5		

Irradiance 1000W/m², Module Temperature 25°C, Air Mass 1.5

*Measuring tolerance: ±3%.

Electrical Specification (NOCT*)

Maximum Power (Pmax/W)	308	312	316	320	323
Maximum Power Voltage (Voc/V)	29.06	29.21	29.34	29.50	29.63
Maximum Power Current (Voc/V)	10.61	10.68	10.76	10.83	10.91
Open Circuit Voltage (Voc/V)	35.84	36.02	36.20	36.38	36.56
Short Circuit Current (Isc/A)	11.23	11.29	11.36	11.42	11.49

Irradiance 800W/m², Cell Temperature 20°C, Wind Speed 1m/s

MECHANICAL DATA

Number of Cells	108 Cells [6×18]
Dimensions of Module L*W*H[mm]	1722×1134×30mm
Weight [kg]	22.0 kg
Front Side Glass	High transparency solar glass 2.0mm
Back Side Glass	High transparency solar glass 2.0mm
Frame	Black Anodized Aluminium Alloy
Junction Box	IP 68 rated
Number of diodes	3
Connector	MC4

* For more details please check the installation manual

TEMPERATURE RATINGS

NOCT (Nominal Operating Cell Temperature)	44°C (±2°C)
Temperature Coefficient of Pmax	- 0.300%/°C
Temperature Coefficient of Voc	- 0.250%/°C
Temperature Coefficient of Isc	+0.046%/°C

MAXIMUM RATINGS

Operational Temperature	-40~+85°C
Maximum System Voltage	1500V DC (-H)
Max Series Fuse Rating	25A

WARRANTY

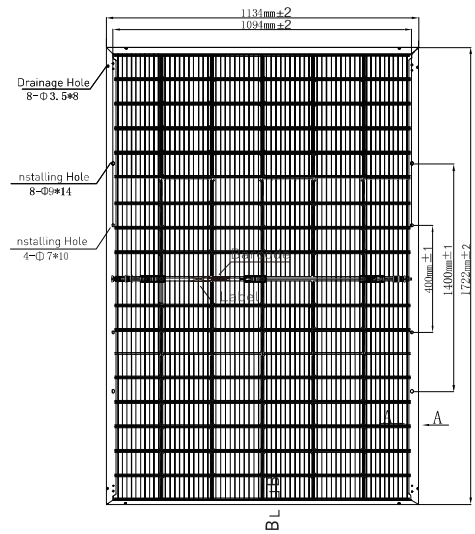
12 year Product Workmanship Warranty
30 year Linear Power Warranty

(Please refer to product warranty for details)

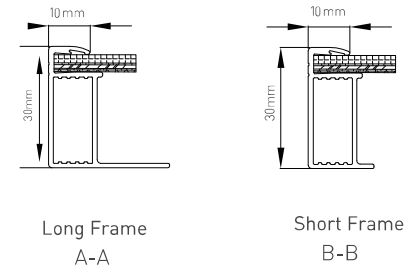
PACKAGING CONFIGURATION

Modules per box: 36 pieces
Modules per 40' container: 936pieces

Module Dimension



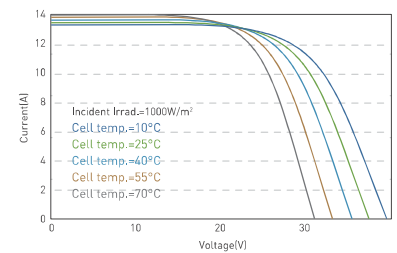
Back View



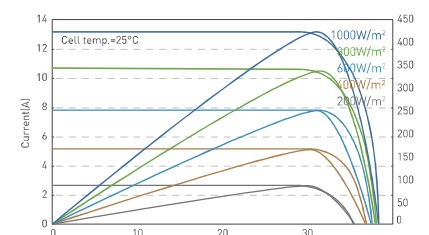
Long Frame
A-A

Short Frame
B-B

I-V Curve at Different Temperature (430W)



I-V/P-V Curve at Different Irradiation (430W)



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