

N-type BCT-16M-144 585 Watt

MONO-FACIAL MODULE

N-Type

Positive power tolerance of 0~+3%

IEC 61215(2016), IEC 61730(2016)

ISO 9001:2015: Quality Management System

ISO 14001:2015: Environment Management System

ISO 45001:2018

Occupational health and safety management systems



Key Features



SMBB Technology

Better light trapping and current collection to improve module power output and reliability.



PID Resistance

Excellent Anti-PID performance guarantee via optimized mass-production process and materials control.



Durability Against Extreme Environmental Conditions

High salt mist and ammonia resistance.



Hot 2.0 Technology

The N-type module with Hot 2.0 technology has better reliability and lower LID/LETID.

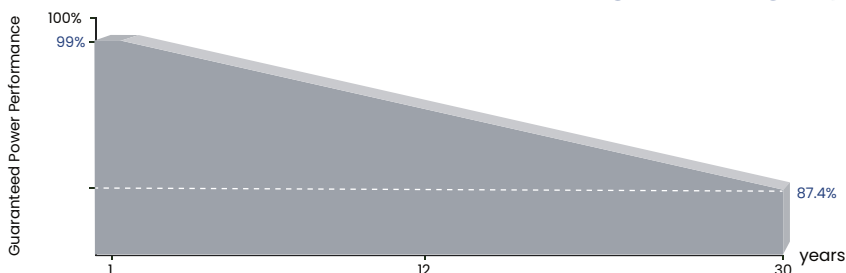


Enhanced Mechanical Load

Certified to withstand: wind load(2400 Pascal) and snow load(5400 Pascal).



LINEAR PERFORMANCE WARRANTY

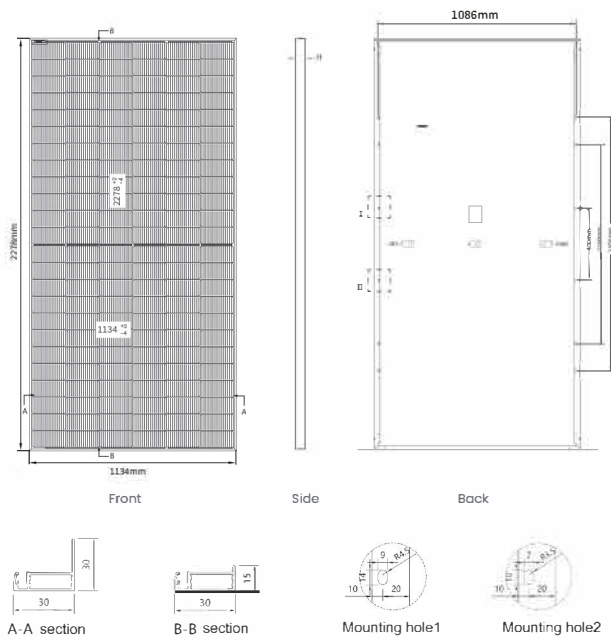


12 Year Product Warranty

30 Year Linear Power Warranty

0.40% Annual Degradation Over 30 years

Engineering Drawings



For detailed sizes and tolerance specification, please consult detailed module drawing

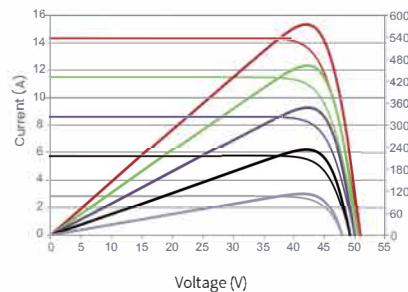
Packaging Configuration

Package Weight & Size 1076Kg/pallet & 2310*1140*1260mm

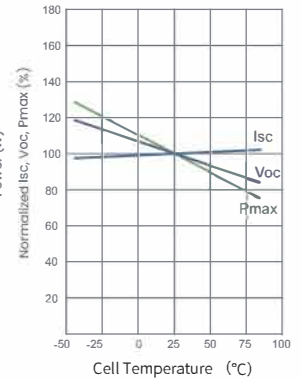
20'GP Container	2 pcs/carton	155 cartons/20'GP	310 pcs
40'HQ Container	37 pcs/pallet	20 pallets/40'HQ	740 pcs
13.5m Land Truck	37 pcs/pallet	22 pallets/truck	814 pcs

Electrical Performance & Temperature Dependence

Current-Voltage & Power-Voltage Curves(580)



Temperature Dependence of Isc, Voc, Pmax



Mechanical Characteristics

Cell Type	N type Mono-crystalline
No. of cells	144 (2×72)
Dimensions	2278×1134×30mm (89.69×44.65×1.18 inch)
Weight	28 kg (59.52 lbs)
Front Glass	3.2mm, Anti-Reflection Coating, High Transmission, Low Iron, Tempered Glass
Frame	Anodized Aluminium Alloy
Junction Box	IP68 Rated
Output Cables	TÜV 1×4.0mm ² (+):300mm, (-): 200mm or Customized Length

Specifications

	STC
Maximum Power (Pmax)	585Wp
Maximum Power Voltage (Vmp)	42.37V
Maximum Power Current (Imp)	13.81A
Open-circuit Voltage (Voc)	51.02V
Short-circuit Current (Isc)	14.60A
Module Efficiency STC (%)	22.45%
Operating Temperature(°C)	-40°C~+85°C
Maximum system voltage	1000/1500VDC (IEC)
Maximum series fuse rating	25A
Power tolerance	0~+3%
Temperature coefficients of Pmax	-0.29%/°C
Temperature coefficients of Voc	-0.25%/°C
Temperature coefficients of Isc	0.045%/°C
Nominal operating cell temperature (NOCT)	45±2°C



www.potenciaverde.com

+507 394-6696

Plaza MiCondado, Condado del Rey Ciudad de Panamá, Panamá
www.potenciaverde.com

BLUE CARBON TECHNOLOGY INC.