

BHI-RC48HC

Silver Series | N-Type Monocrystalline

450W

MAXIMUM POWER OUTPUT

0~+5W

POSITIVE POWER TOLERANCE

23.02%

MAXIMUM EFFICIENCY

450W

PRODUCT RANGE



MBB HALF-CUT SOLAR CELL

182x210mm, 96cells



HIGHER MODULE CONVERSION EFFICIENCY

Higher module output up to 460W with module efficiency up to 23.02%



LIGHT-WEIGHT DESIGN

Light-weight design using transparent backsheet for easy installation and low BOS cost



LOW-LIGHT PERFORMANCE

Advanced glass and surface texturing allow for excellent performance in low-light environments



CERTIFICATIONS

Quality Management System and Product Certification

IEC61215(2021), IEC61730(2023), IEC61701

IEC61215-2(bifaciality): 2021

ISO9001:2015: Quality Management System

ISO14001:2015: Environment Management System

ISO45001:2018: Occupational health and safety management systems



LINEAR PERFORMANCE WARRANTY

15 Year

Product Warranty

30 Year

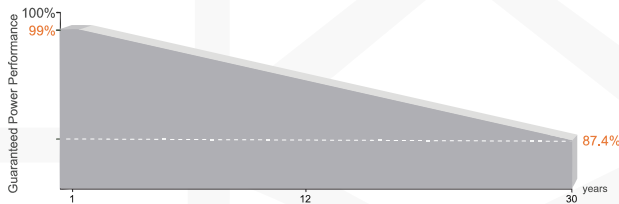
Linear Power Warranty

<1%

First Year Power Degradation

<0.4 %

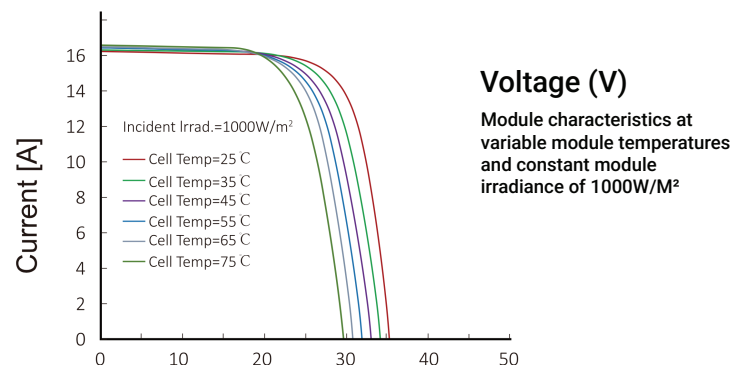
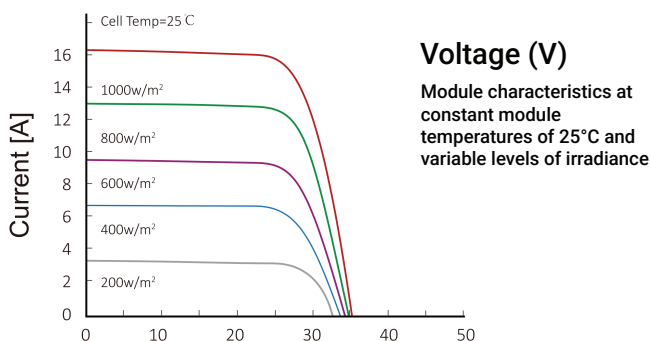
Year 2-30 Power Degradation



HIGHER POWER OUTPUT

Module power increases 5-25% generally, bringing significantly lower LCOE and higher IRR

CURRENT-VOLTAGE CURVES:



182mm, 48-CELL HALF-CUT SERIES

ELECTRICAL PERFORMANCE

Module Type: BHI-RC48HC

Maximum Power(Wp)	450W
Open Circuit Voltage(Voc)	35.20V
Short Circuit Current(Isc)	16.10A
Maximum Power Voltage(Vm)	29.20V
Maximum Power Current(Im)	15.41A
Module Efficiency	22.52%
Maximum Series Fuse	25A
Watts Positive Tolerance	0~+5W
Number Of Diode	3
Standard Test Conditions	1000W/M², 25°C, AM1.5
Maximum System Voltage	1500V/DC
Temperature-Coefficient Isc	+0.043%/°C
Temperature-Coefficient Voc	-0.24%/°C
Temperature-Coefficient Pmpp	-0.30%/°C
Operating Temperature	-40°C...+85°C
Normal Operating Cell Temperature	45±2°C
Load Capacity For The Cover Of The Module (Glass)	5400Pa(IEC61215)(snow)
Load Capacity For The Front & Back Of The Module	2400Pa(IEC61215)(wind)

ELECTRICAL PERFORMANCE (NOCT)

Module Type: BHI-RC48HC

Maximum Power(Wp)	342W
Open Circuit Voltage(Voc)	33.45V
Short Circuit Current(Isc)	12.88A
Maximum Power Voltage(Vm)	27.76V
Maximum Power Current(Im)	12.32A

MECHANICAL CHARACTERISTICS

Front/Back Cover (Material / Thickness)	low-iron tempered glass / 3.2mm
Backsheet (Color)	TPT in white
Cell (Quantity / Material / Dimensions)	108(6x9x2) / monocrystalline silicon
Frame (Material / Color)	aluminum hollow-chamber frame on each side anodized aluminum alloy / silver
Junction Box (Protection Degree)	≥IP68
Cables & Plug Connectors	4mm², 300mm in length, length can be customized
Module Dimensions (L / W / H)	1762x1134x30mm
Module Weight	22.5kg
Application Class	Class A
Electrical Protection Class	Class II
Fire Safety Class	Class C

PACKING

Container Size	Units/Pallet (PCS)	Weight/Pallet (KG)	Pallet Measurement (mm)	Units/Container (PCS)
40HQ	36	845	1790x1120x1260mm	936

MODULE DIAGRAM

