

BHI-RC48HC

Silver Series | N-Type Monocrystalline

460W

MAXIMUM POWER OUTPUT

0~+5W

POSITIVE POWER TOLERANCE

23.02%

MAXIMUM EFFICIENCY

440-460W

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

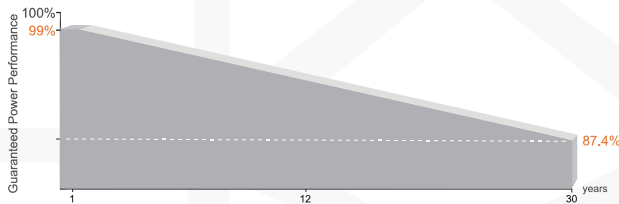
Linear Power Warranty

<1%

First Year Power Degradation

<0.4 %

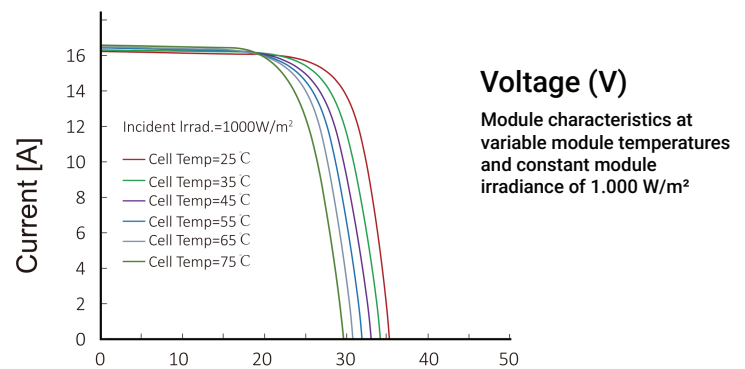
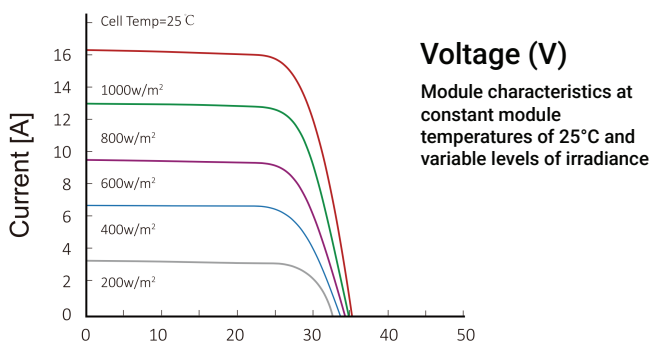
Year 2-30 Power Degradation



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	440M	/ 445M	/ 450M	/ 455M	/ 460M
Maximum Power(Wp)	440W	445W	450W	455W	460W
Open Circuit Voltage(Voc)	34.80V	35.00V	35.20V	35.40V	35.60V
Short Circuit Current(Isc)	16A	16.05A	16.10A	16.15A	16.20A
Maximum Power Voltage(Vm)	28.80V	29.00V	29.20V	29.40V	29.60V
Maximum Power Current(Imp)	15.28A	15.35A	15.41A	15.48A	15.54A
Module Efficiency	22.02%	22.27%	22.52%	22.77%	23.02%
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	440M	/ 445M	/ 450M	/ 455M	/ 460M
Maximum Power(Wp)	334W	338W	342W	346W	350W
Open Circuit Voltage(Voc)	34.05V	33.25V	33.45V	33.65V	33.85V
Short Circuit Current(Isc)	12.8A	12.84A	12.88A	12.92A	12.96A
Maximum Power Voltage(Vm)	28.34V	27.53V	27.76V	27.95V	28.16V
Maximum Power Current(Imp)	12.22A	12.28A	12.32A	12.38A	12.43A

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

