

Silver Series

ERA-RC48HD(BK)

Product Range

440-460W

N-Type Bifacial
Double Glass

460W

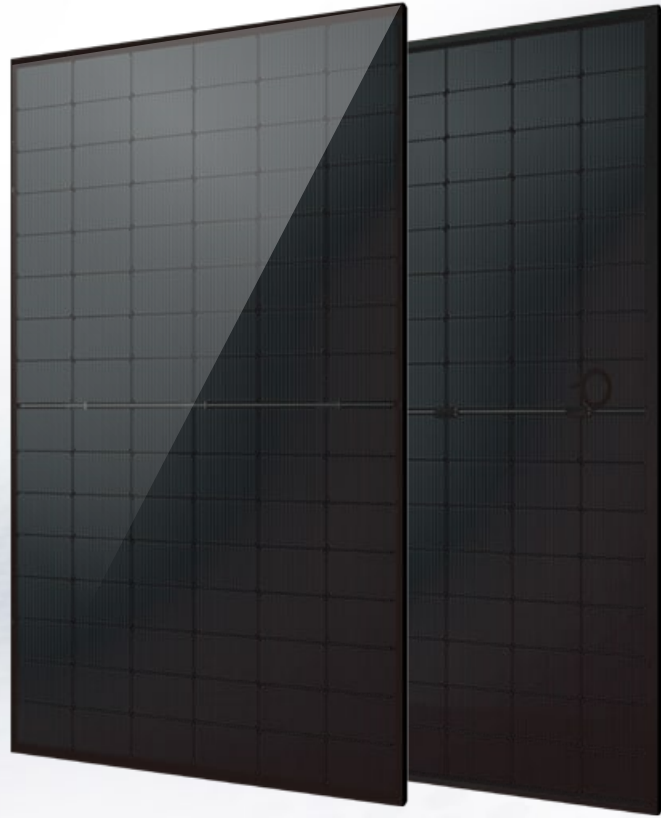
Maximum Power Output

0~+5W

Positive Power Tolerance

23.02%

Maximum Efficiency



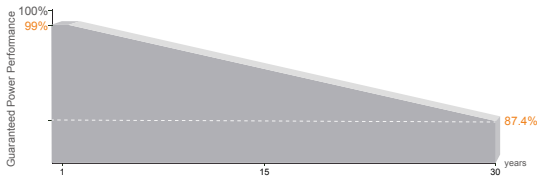
Linear Performance Warranty

15 Year Product Warranty

30 Year Linear Power Warranty

<1% First year Power Degradation

<0.4% Year 2-30 Power Degradation



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



MBB Half-Cut Solar Cell

182x105mm, 96 cells.

Higher Module Conversion Efficiency

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

Low-Light Performance

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

Transparent Dual-glass Design

Excellent fire rating, with better temperature coefficient.

Higher Power Output

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

ERA
SOLAR

Double Glass, 182x210mm , 48-CELL HALF-CUT SERIES

ELECTRICAL PARAMETERS AT STC

Module Type: ERA-RC48HD(BK)	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	30A				
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	+0.035%/°C				
Temperature-Coefficient Voc	-0.259%/°C				
Temperature-Coefficient Pmpp	-0.2482%/°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)				

BNPI (1000w/m² + 135w/m²)

Module Type: ERA-RC48HD(BK)	440M	445M	450M	455M	460M
Maximum Power(Wp)	484W	490W	495W	501W	506W
Open Circuit Voltage(Voc)	34.83V	35.02V	35.24V	35.41V	35.60V
Short Circuit Current(Isc)	17.60A	17.66A	17.71A	17.80A	17.86A
Maximum Power Voltage(Vm)	28.81V	29.02V	29.21V	29.41V	29.60V
Maximum Power Current(Imp)	16.80A	16.89A	16.95A	17.04A	17.10A

BSI (1000w/m² + 300w/m²)

Module Type: ERA-RC48HD(BK)	440M	445M	450M	455M	460M
Maximum Power(Wp)	541W	547W	553W	559W	565W
Open Circuit Voltage(Voc)	34.81V	35.01V	35.22V	35.41V	35.62V
Short Circuit Current(Isc)	19.66A	19.72A	19.78A	19.85A	19.91A
Maximum Power Voltage(Vm)	28.81V	29.01V	29.22V	29.41V	29.62V
Maximum Power Current(Imp)	18.78A	18.86A	18.93A	19.01A	19.08A

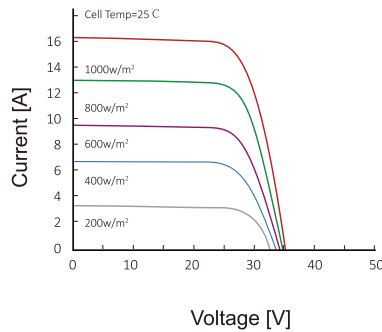
MECHANICAL CHARACTERISTICS

Front Glass	2.0mm high transmittance, AR semi-tempered glass
Rear Glass	2.0mm semi-tempered glass
Cell (Quantity / Material / Dimensions)	96(6x8x2) / monocrystalline silicon,bifacial
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	22.5 kg
Application Class	Class A
Electrical Protection Class	Class II
Fire Safety Class	Class A

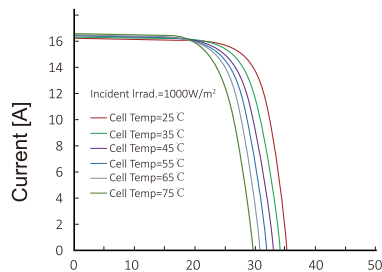
PACKING

Container Size	Units/Pallet (PCS)	Weight/Pallet (KG)	Pallet Measurement (mm)	Units/Container (PCS)
40HQ	36	845	1790x1120x1260	936

CURRENT-VOLTAGE CURVES:



Module characteristics at constant module temperatures of 25°C and variable levels of irradiance



Module characteristics at variable module temperatures and constant module irradiance of 1.000 W/m²

MODULE DIAGRAM:

