

Silver Black

ERA-RC54HD(BK)

Product Range

500W

N-Type Rectangle Bifacial
Double Glass

500W

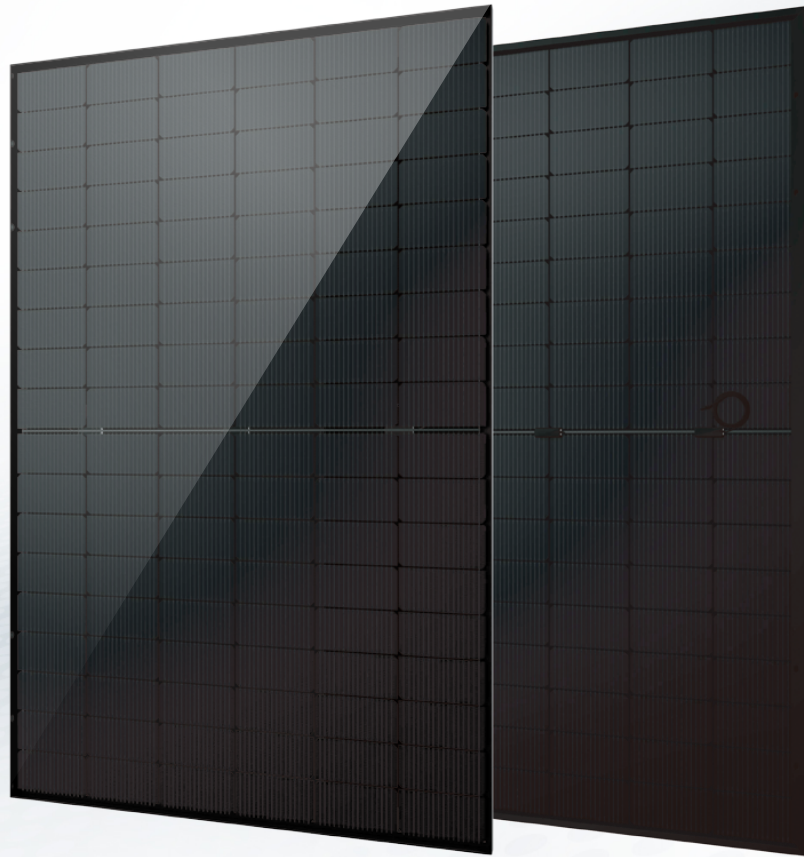
Maximum Power Output

0~+5W

Positive Power Tolerance

22.38%

Maximum Efficiency



ERA
SOLAR

Double Glass, 54-CELL HALF-CUT SERIES

ELECTRICAL PARAMETERS AT STC

Module Type: ERA-RC54HD(BK)	500M
Maximum Power(Wp)	500W
Open Circuit Voltage(Voc)	39.40V
Short Circuit Current(Isc)	16.05A
Maximum Power Voltage(Vm)	32.60V
Maximum Power Current(Im)	15.34A
Module Efficiency	22.38%
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	-0.262%/°C
Temperature-Coefficient Pmpp	-0.359%/°C
Operating Temperature	-40°C...+85°C
Normal Operating Cell Temperature	45±2
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-RC54HD(BK)	500M
Maximum Power(Wp)	550W
Open Circuit Voltage(Voc)	39.43V
Short Circuit Current(Isc)	17.66A
Maximum Power Voltage(Vm)	32.61V
Maximum Power Current(Im)	16.87A

BSI (1000w/m² + 300w/m²)

Module Type: ERA-RC54HD(BK)	500M
Maximum Power(Wp)	615W
Open Circuit Voltage(Voc)	39.40V
Short Circuit Current(Isc)	19.74A
Maximum Power Voltage(Vm)	32.61V
Maximum Power Current(Im)	18.86A

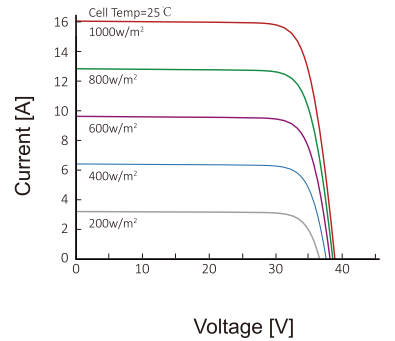
MECHANICAL CHARACTERISTICS

Front Glass	2.0mm high transmittance, AR semi-tempered glass
Rear Glass	2.0mm semi-tempered glass
Cell (Quantity / Material / Dimensions)	108(6x18) / monocrystalline silicon,bifacial
Frame (Material / Color)	aluminum hollow-chamber frame on each side anodized aluminum alloy / black
Junction Box (Protection Degree)	≥IP68
Cables & Plug Connectors	4mm², 300mm in length,length can be customized
Module Dimensions (L / W / H)	1970(±2)x1134(±2)x30mm
Module Weight	26.6kg
Application Class	Class A
Electrical Protection Class	Class II
Fire Safety Class	Class A

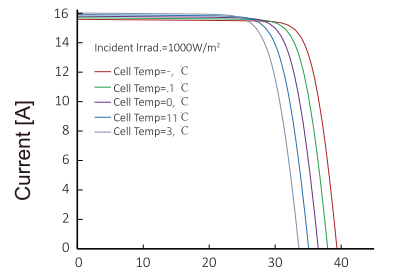
PACKING

Container Size	Units/Pallet (PCS)	Weight/Pallet (KG)	Pallet Measurement (mm)	Units/Container (PCS)
40HQ	36 (30mm)	987.6	1990x1120x1260	864

CURRENT-VOLTAGE CURVES:

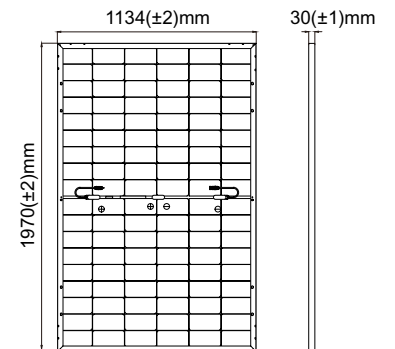
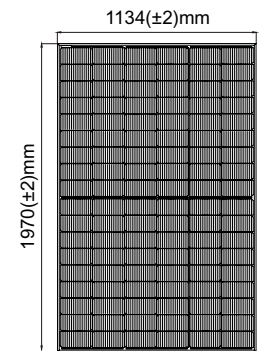


Module characteristics at constant module temperatures of 25°C and variable levels of irradiance



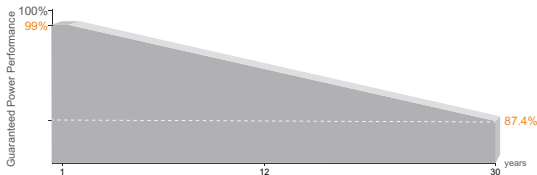
Module characteristics at variable module temperatures and constant module irradiance of 1.000 W/m²

MODULE DIAGRAM:



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 Rectangle Solar Cell

182x105mm, 108 cells.

Higher Module Conversion Efficiency

Higher module output up to 500W with module efficiency up to 22.38%.

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.

