Silver Series

ERA-RC66HD

Product Range

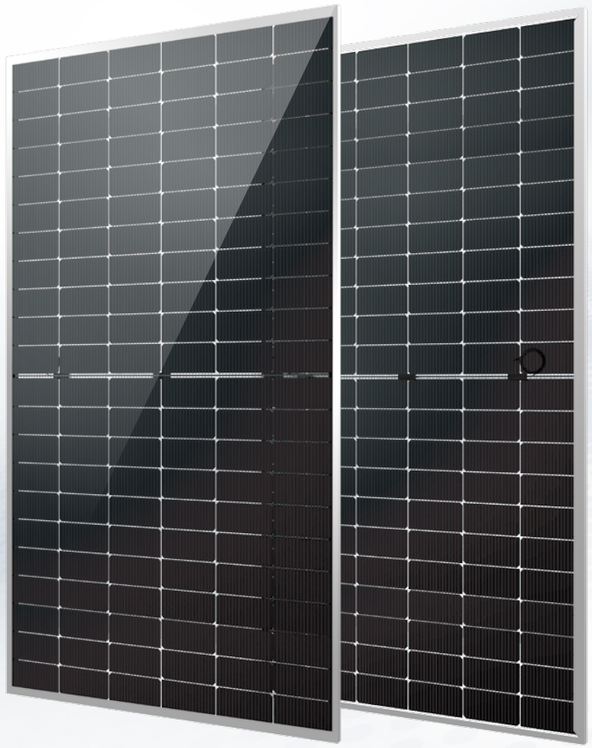
610-645W

N-Type Rectangle Bifacial
Double Glass

645W
Maximum Power Output

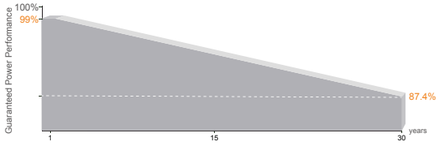
0~+5W
Positive Power Tolerance

23.88%
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
IS09001:2015: Quality Management System
IS014001:2015: Environment Management System
IS045001:2018: Occupational health and safety management systems

MBB Half-Cut Rectangle Solar Cell

182x105mm, 132 cells.

Higher Module Conversion Efficiency

Higher module output up to 645W with module efficiency up to 23.88%.

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 coefficiency.

Higher Power Output

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

Zhejiang ERA Solar Technology Co., Ltd.
www.erasolar.com.cn

Double Glass, 66-CELL HALF-CUT SERIES

ELECTRICAL PARAMETERS AT STC

Module Type: ERA-RC66HD	610M	615M	620M	625M	630M	635M	640M	645M
Maximum Power(Wp)	610W	615W	620W	625W	630W	635W	640W	645W
Open Circuit Voltage(Voc)	48.10V	48.30V	48.50V	48.65V	48.80V	48.95V	49.10V	49.25V
Short Circuit Current(Isc)	16.05A	16.10A	16.15A	16.20A	16.25A	16.30A	16.35A	16.40A
Maximum Power Voltage(Vm)	39.77V	39.96V	40.15V	40.30V	40.47V	40.63V	40.80V	40.96V
Maximum Power Current(Im)	15.34A	15.39A	15.45A	15.51A	15.57A	15.63A	15.69A	15.75A
Module Efficiency	22.58%	22.77%	22.95%	23.14%	23.32%	23.51%	23.69%	23.88%
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°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-RC66HD	610M	615M	620M	625M	630M	635M	640M	645M
Maximum Power(Wp)	671W	677W	682W	688W	693W	699W	704W	710W
Open Circuit Voltage(Voc)	48.12V	48.32V	48.51V	48.67V	48.83V	48.98V	49.12V	49.28V
Short Circuit Current(Isc)	17.66A	17.71A	17.77A	17.83A	17.89A	17.95A	18.01A	18.07A
Maximum Power Voltage(Vm)	39.78V	39.97V	40.17V	40.33V	40.48V	40.67V	40.82V	41.00V
Maximum Power Current(Im)	16.87A	16.94A	16.98A	17.06A	17.12A	17.19A	17.25A	17.32A

BSI (1000w/m² + 300w/m²)

Module Type: ERA-RC66HD	610M	615M	620M	625M	630M	635M	640M	645M
Maximum Power(Wp)	750W	756W	763W	769W	775W	781W	787W	793W
Open Circuit Voltage(Voc)	48.12V	48.32V	48.50V	48.67V	48.83V	48.98V	49.15V	49.28V
Short Circuit Current(Isc)	19.74A	19.80A	19.86A	19.93A	20.00A	20.07A	20.14A	20.21A
Maximum Power Voltage(Vm)	39.79V	39.98V	40.15V	40.33V	40.52V	40.66V	40.85V	41.01V
Maximum Power Current(Im)	18.86A	18.92A	18.99A	19.07A	19.13A	19.21A	19.27A	19.34A

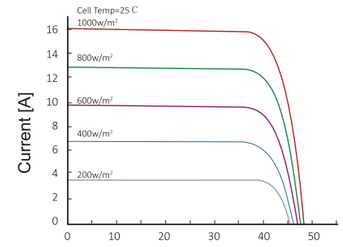
MECHANICAL CHARACTERISTICS

Front Glass	2.0mm high transmittance, AR semi-tempered glass
Rear Glass	2.0mm semi-tempered glass
Cell (Quantity / Material / Dimensions)	132(6x11x2) / 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)	2382(±2)x1134(±2)x30/35mm
Module Weight	32.5kg / 33kg
Application Class	Class A
Electrical Protection Class	Class II
Fire Safety Class	Class A

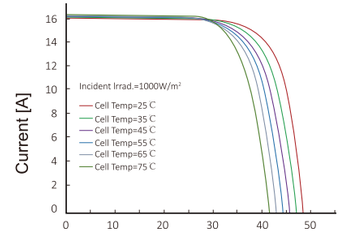
PACKING

Container Size	Units/Pallet (PCS)	Weight/Pallet (KG)	Pallet Measurement (mm)	Units/Container (PCS)
40HQ	37 (30mm)	1245	2386x1140x1260	740
	31 (35mm)	1060	2386x1120x1260	620

CURRENT-VOLTAGE CURVES:



Voltage [V]
Module characteristics at constant module temperatures of 25°C and variable levels of irradiance



Voltage [V]
Module characteristics at variable module temperatures and constant module irradiance of 1.000 W/m²

MODULE DIAGRAM: