

Silver Series

ERA-RA72HC

Product Range

580-610W

N-Type Rectangle
High Efficiency

610W

Maximum Power Output

0~+5W

Positive Power Tolerance

23.04%

Maximum Efficiency

ERA
SOLAR



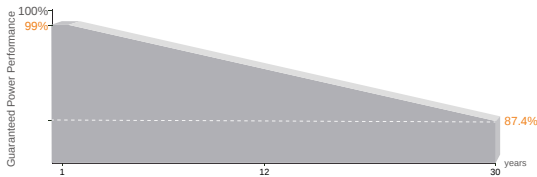
Linear Performance Warranty

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

182x94mm, 144 cells.



Higher Module Conversion Efficiency

Higher module output up to 610w with module efficiency up to 23.04%.



Low-Light Performance

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



Universal Solution For Residential And C&I Rooftops

Perfect size and low weight for handling and installation.



72-CELL HALF-CUT SERIES

ELECTRICAL PARAMETERS AT STC

Module Type: ERA-RA72HC	580M	/	585M	/	590M	/	595M	/	600M	/	605M	/	610M
Maximum Power(Wp)	580W		585W		590W		595W		600W		605W		610W
Open Circuit Voltage(Voc)	51.6V		51.8V		52V		52.2V		52.4V		52.6V		52.8V
Short Circuit Current(Isc)	14.13A		14.22A		14.31A		14.4A		14.48A		14.56A		14.64A
Maximum Power Voltage(Vm)	43.32V		43.43V		43.55V		43.66V		43.76V		43.94V		44.11V
Maximum Power Current(Imp)	13.39A		13.47A		13.55A		13.63A		13.71A		13.77A		13.83A
Module Efficiency	21.90%		22.09%		22.28%		22.47%		22.66%		22.85%		23.04%
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	+0.046%/°C												
Temperature-Coefficient Voc	-0.26%/°C												
Temperature-Coefficient Pmpp	-0.30%/°C												
Operating Temperature	-40°C...+85°C												
Normal Operating Cell Temperature	45±2												
Load Capacity For The Cover Of The Module (Glass)	3600Pa(IEC61215)(snow)												
Load Capacity For The Front & Back Of The Module	2400Pa(IEC61215)(wind)												

ELECTRICAL PERFORMANCE (NOCT)

Module Type: ERA-RA72HC	580M	/	585M	/	590M	/	595M	/	600M	/	605M	/	610M
Maximum Power(Wp)	440W		444W		448W		452W		456W		460W		464W
Open Circuit Voltage(Voc)	49.1V		49.25V		49.4V		49.55V		49.7V		49.85V		50V
Short Circuit Current(Isc)	11.31A		11.38A		11.45A		11.52A		11.59A		11.65A		11.71A
Maximum Power Voltage(Vm)	41.13V		41.23V		41.33V		41.43V		41.57V		41.75V		41.92V
Maximum Power Current(Imp)	10.7A		10.77A		10.84A		10.91A		10.97A		11.02A		11.07A

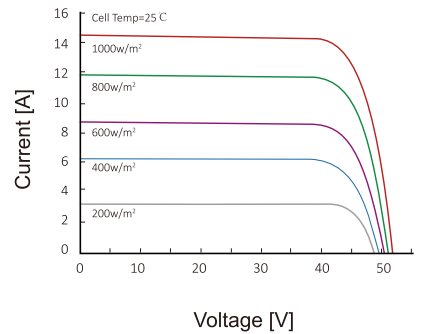
MECHANICAL CHARACTERISTICS

Front/Back Cover (Material / Thickness)	low-iron tempered glass 3.2 mm
Cell (Quantity / Material / Dimensions)	144(72x2) / monocrystalline silicon
Frame (Material / Color)	aluminum hollow-chamber frame on each side anodized aluminum alloy
Junction Box (Protection Degree)	≥ IP68
Cables & Plug Connectors	4mm², 300mm in length,length can be customized
Module Dimensions (L / W / H)	2335x1134x30mm
Module Weight	26.6 kg
Application Class	Class A
Electrical Protection Class	Class II
Fire Safety Class	Class A

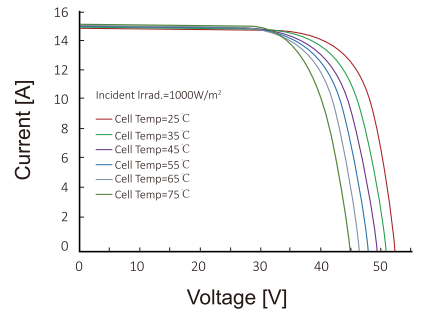
PACKING

Container Size	Units/Pallet (PCS)	Weight/Pallet (KG)	Pallet Measurement (mm)	Units/Container (PCS)
40HQ	36	1000	2360x1120x1260	720
	37	1020	2360x1140x1260	740

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:

