



ERA-72HCB

Monocrystalline Half-Cut Bifacial Solar Module

KEY FEATURES

MBB Half-Cut Solar Cell:
144 cells (6X24); 10/11 busbar solar cell.

Higher Module Conversion Efficiency:
Higher module output up to 550W with module efficiency up to 21.5%.

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

Light-weight design
Light-weight design using transparent backsheets for easy installation and low BOS cost.

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

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+ WATTS POSITIVE TOLERANCE

12 YEARS PRODUCT WARRANTY

25 YEARS LINEAR POWER WARRANTY

BIFACIAL, 182mm SERIES, 72-CELL HALF-CUT SERIES

ELECTRICAL PERFORMANCE

Module type: ESPHSC	525M / 530M / 535M / 540M / 545M / 550M
Maximum Power(Wp)	525W 530W 535W 540W 545W 550W
Open circuit Voltage(Voc)	49.05V 49.20V 49.35V 49.50V 49.65V 49.80V
Short circuit Current(Isc)	13.65A 13.71A 13.78A 13.85A 13.92A 13.98A
Maximum Power Voltage(Vm)	41.20V 41.35V 41.50V 41.65V 41.80V 41.95V
Maximum Power Current(Im)	12.75A 12.82A 12.90A 12.97A 13.04A 13.12A
Module efficiency	20.3% 20.5% 20.7% 20.9% 21.1% 21.3%
Maximum Series Fuse	25A
Watts positive tolerance	0~+3%
Number of Diode	3
Standard Test Conditions	1000W/M ² , 25°C, AM1.5
Maximum System Voltage	1500V/DC
Temperature-Coefficient Isc	+0.048%/°C
Temperature-Coefficient Voc	-0.270%/°C
Temperature-Coefficient Pmpp	-0.350%/°C
Normal Operating Cell Temperature	-40°C...+85°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: ESPHSC	525M / 530M / 535M / 540M / 545M / 550M
Maximum Power(Wp)	397W 400.5W 404.5W 408.5W 412W 416W
Open circuit Voltage(Voc)	46.05V 46.20V 46.35V 46.50V 46.65V 46.8V
Short circuit Current(Isc)	10.85A 10.90A 10.95A 11.00A 11.07A 11.11A
Maximum Power Voltage(Vm)	38.90V 39.05V 39.20V 39.35V 39.50V 39.65V
Maximum Power Current(Im)	10.20A 10.26A 10.32A 10.38A 10.43A 10.51A

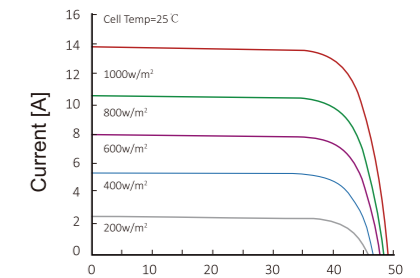
MECHANICAL CHARACTERISTICS

Front cover (material / thickness)	low-iron tempered glass / 3.2mm
Backsheet (color)	transparent
Cell (quantity / material / dimensions)	144(6x24) / 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	4mm ² , 300mm in length, length can be customized
Module Dimensions (L / W / H)	2279x1134x35mm
Module Weight	27.2kg
Application class	Class A
Electrical protection class	Class II
Fire safety class	Class C

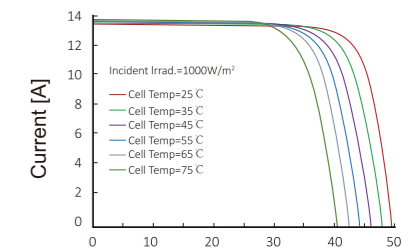
PACKING

Container Size	Units/Pallet (PCS)	Weight/Pallet (KG)	Pallet Measurement (mm)	Units/Container (PCS)
40HQ	31	858	2285x1130x1260	620

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:

