

ERA-54HC(BK)

Monocrystalline Half-Cut Solar Module

KEY FEATURES



MBB Half-Cut Solar Cell:
108 cells (6X9X2); 10 busbar solar cell.



Higher Module Conversion Efficiency:
Higher module output up to 410W with module efficiency up to 21%.



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



Light-weight design
Light-weight design using transparent backsheet 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



YEARS
PRODUCT
WARRANTY



YEARS LINEAR
POWER WARRANTY

MONOCRYSTALLINE, 54-CELL HALF-CUT SERIES ALL BLACK

ELECTRICAL PERFORMANCE

Module type: ESPHSC	390M / 395M / 400M / 405M / 410M
Maximum Power(Wp)	390W 395W 400W 405W 410W
Open circuit Voltage(Voc)	36.50V 36.70V 36.95V 37.15V 37.35V
Short circuit Current(Isc)	13.65A 13.72A 13.78A 13.85A 13.92A
Maximum Power Voltage(Vm)	30.60V 30.80V 31.05V 31.25V 31.45V
Maximum Power Current(Imp)	12.76A 12.83A 12.90A 12.97A 13.04A
Module efficiency	19.9% 20.2% 20.5% 20.7% 21%
Maximum Series Fuse	25A
Watts positive tolerance	0~+5%
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)
Product Certificate	IEC61215,IEC61730,INMETRO
Company Certificate	ISO9001,ISO14001,ISO18001

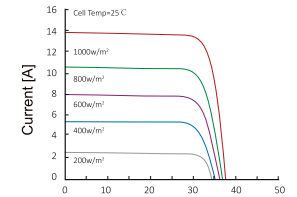
MECHANICAL CHARACTERISTICS

Front cover (material / thickness)	low-iron tempered glass / 3.2mm
Backsheet (color)	TPT in black
Cell (quantity / material / dimensions)	108(6x9x2) / monocrystalline silicon
Frame (material / color)	aluminum hollow-chamber frame on each side anodized aluminum alloy / black
Junction box (protection degree)	≥IP68
Cables & Plug connectors	4mm ² , 300mm in length,length can be customized
Module Dimensions (L / W / H)	1722x1134x35mm
Module Weight	22.5kg
Application class	Class A
Electrical protection class	Class II
Fire safety class	Class C

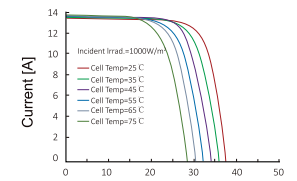
PACKING

Container Size	Units/Pallet (PCS)	Weight/Pallet (KG)	Pallet Measurement (mm)	Units/Container (PCS)
40HQ	31	713	1770x1130x1260	806

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:

