

ERA-54HC(BK)

Monocrystalline Half-Cut Solar Module

KEY FEATURES

MBB Half-Cut Solar Cell:
108 cells (6X9X2); 10/11 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 backsheets for easy installation and low BOS cost.

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

+ WATTS POSITIVE TOLERANCE

12 YEARS PRODUCT WARRANTY

25 YEARS LINEAR POWER WARRANTY

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182mm SERIES, 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(Im)	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~+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	390M	395M	400M	405M	410M
Maximum Power(Wp)	295W	298.5W	302.5W	306W	310W
Open circuit Voltage(Voc)	34.30V	34.50V	34.70V	34.90V	35.10V
Short circuit Current(Isc)	10.85A	10.90A	10.95A	11.00A	11.07A
Maximum Power Voltage(Vm)	28.90V	29.10V	29.30V	29.50V	29.70V
Maximum Power Current(Im)	10.21A	10.26A	10.32A	10.38A	10.43A

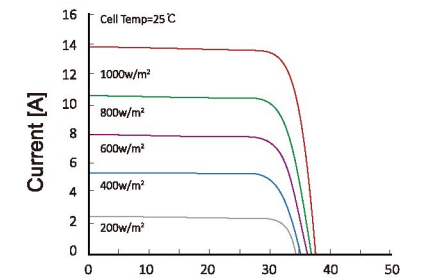
MECHANICAL CHARACTERISTICS

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)	1722x1134x35/30mm
Module Weight	22.5kg
Application class	Class A
Electrical protection class	Class II
Fire safety class	Class C

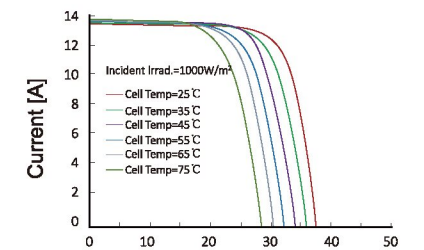
PACKING

Container Size	Units/Pallet (PCS)	Weight/Pallet (KG)	Pallet Measurement (mm)	Units/Container (PCS)
40HQ	31	713	1770x1130x1260	806 (35mm)
	36	720	1770x1130x1260	936 (30mm)

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:

