

ESPHSC

KEY FEATURES

Monocrystalline Half-Cut Bifacial Solar Module

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.

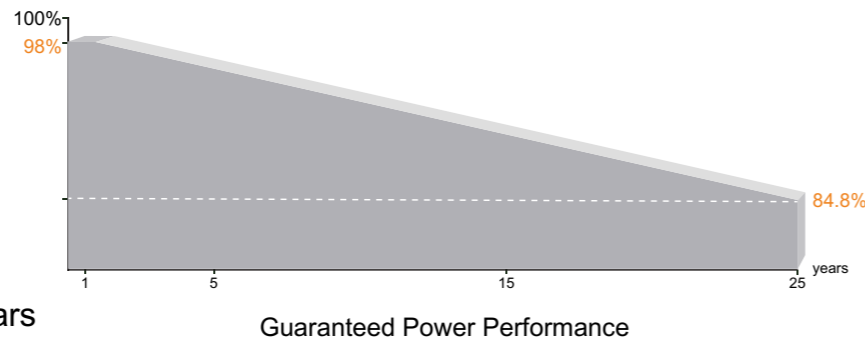
WARRANTY

LINEAR PERFORMANCE WARRANTY

15 Year Product Warranty

25 Year Linear Power Warranty

0.55% Annual Degradation Over 25 years



182

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

ELECTRICAL PERFORMANCE

Module type: ESPHSC	550W
Maximum Power(Wp)	550W
Open circuit Voltage(Voc)	49.80V
Short circuit Current(Isc)	13.98A
Maximum Power Voltage(Vm)	41.95V
Maximum Power Current(Im)	13.12A
Module efficiency	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	550W
Maximum Power(Wp)	416W
Open circuit Voltage(Voc)	46.8V
Short circuit Current(Isc)	11.11A
Maximum Power Voltage(Vm)	39.65V
Maximum Power Current(Im)	10.51A

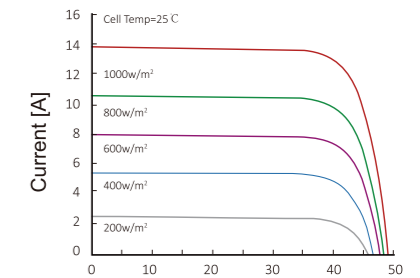
MECHANICAL CHARACTERISTICS

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

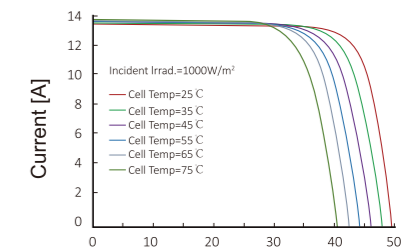
PACKING

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:

