



ESPHSC555

Monocrystalline Half-Cut 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 555W 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 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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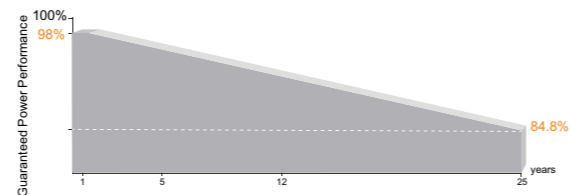
WARRANTY FOR PERC

LINEAR PERFORMANCE WARRANTY

15 Year Product Warranty

25 Year Linear Power Warranty

0.55% Annual Degradation Over 25 years



+ WATTS POSITIVE TOLERANCE

15 YEARS PRODUCT WARRANTY

25 YEARS LINEAR POWER WARRANTY

182mm SERIES, 72-CELL HALF-CUT SERIES

ELECTRICAL PERFORMANCE

Module type: ESPHSC	555M
Maximum Power(Wp)	555W
Open circuit Voltage(Voc)	50.02V
Short circuit Current(Isc)	14.07A
Maximum Power Voltage(Vm)	42.11V
Maximum Power Current(Im)	13.18A
Module efficiency	21.5%
Maximum Series Fuse	25A
Number of Diode	3
Standard Test Conditions	1000W/M ² ,25°C,AM1.5
Maximum System Voltage	1500V/DC
Temperature-Coefficient Isc	+0.045%/°C
Temperature-Coefficient Voc	-0.275%/°C
Temperature-Coefficient Pmpp	-0.350%/°C
Operating 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	555M
Maximum Power(Wp)	420W
Open circuit Voltage(Voc)	46.85V
Short circuit Current(Isc)	11.21A
Maximum Power Voltage(Vm)	39.66V
Maximum Power Current(Im)	10.59A

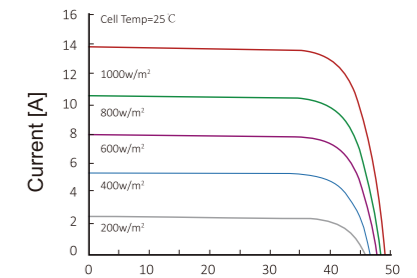
MECHANICAL CHARACTERISTICS

Front cover (material / thickness)	low-iron tempered glass / 3.2mm
Backsheet (color)	TPT in white
Cell (quantity / material / dimensions)	144(6x24) / monocrystalline silicon
Frame (material / color)	aluminum hollow-chamber frame on each side anodized aluminum alloy / silver
Junction box (protection degree)	≥ IP68
Cables & Plug connectors	4mm ² , 500mm in length
Module Dimensions (L / W / H)	2278x1134x30mm
Module Weight	27.2kg
Application class	Class A
Electrical protection class	Class II
Fire safety class	Class C

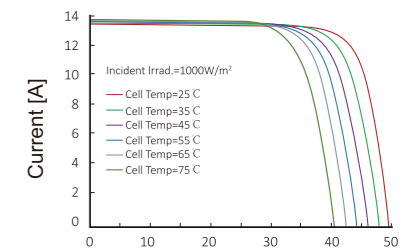
PACKING

Container Size	Units/Pallet (PCS)	Weight/Pallet (KG)	Pallet Measurement (mm)	Units/Container (PCS)
40HQ	36	996	2285x1130x1260	720

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:

