

# ESPHSC(BK)

## Monocrystalline Half-Cut Solar Module-Black

### KEY FEATURES

**MBB Half-Cut Solar Cell:**  
120 cells (6X20); 9 busbar solar cell.

**Higher Module Conversion Efficiency:**  
Higher module output up to 370W with module efficiency up to 20.31%.

**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.

166

**+** WATTS POSITIVE TOLERANCE

**12** YEARS PRODUCT WARRANTY

**25** YEARS LINEAR POWER WARRANTY

### 166mm SERIES, 60-CELL HALF-CUT SERIES ALL BLACK

#### ELECTRICAL PERFORMANCE

Module type: ESPHSC	355M / 360M / 365M / 370M / 375M
Maximum Power(Wp)	355W 360W 365W 370W 375W
Open circuit Voltage(Voc)	40.30V 40.50V 40.70V 40.90V 41.10V
Short circuit Current(Isc)	11.25A 11.35A 11.43A 11.52A 11.60A
Maximum Power Voltage(Vm)	33.80V 34.00V 34.20V 34.40V 34.60V
Maximum Power Current(Im)	10.51A 10.59A 10.68A 10.75A 10.84A
Module efficiency	19.48% 19.76% 20.03% 20.31% 20.58%
Maximum Series Fuse	20A
Watts positive tolerance	0~+3%
Number of Diode	3
Standard Test Conditions	1000W/M <sup>2</sup> , 25°C, AM1.5
Maximum System Voltage	1000/1500V/DC
Temperature-Coefficient Isc	+0.049%/°C
Temperature-Coefficient Voc	-0.271%/°C
Temperature-Coefficient Pmpp	-0.352%/°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	355M / 360M / 365M / 370M / 375M
Maximum Power(Wp)	268.5W 272W 276W 279.5W 283.5W
Open circuit Voltage(Voc)	37.85V 38.05V 38.25V 38.45V 38.65V
Short circuit Current(Isc)	8.94A 9.02A 9.09A 9.16A 9.22A
Maximum Power Voltage(Vm)	31.90V 32.10V 32.30V 32.50V 32.70V
Maximum Power Current(Im)	8.41A 8.47A 8.54A 8.60A 8.67A

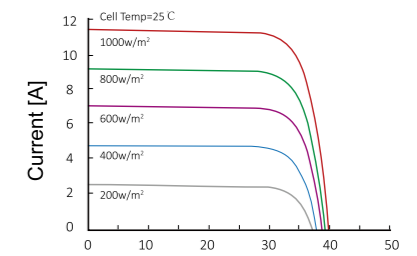
#### MECHANICAL CHARACTERISTICS

Front cover (material / thickness)	low-iron tempered glass / 3.2mm
Backsheet (color)	TPT in Black-White
Cell (quantity / material / dimensions)	120(6x20) / 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 <sup>2</sup> , 300mm in length, length can be customized
Module Dimensions (L / W / H)	1755x1038x35mm
Module Weight	20kg
Application class	Class A
Electrical protection class	Class II
Fire safety class	Class C

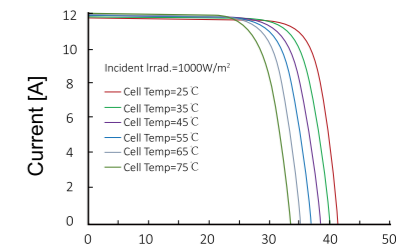
#### PACKING

Container Size	Units/Pallet (PCS)	Weight/Pallet (KG)	Pallet Measurement (mm)	Units/Container (PCS)
20GP	58(31+27)	1190	1800x1130x2205	348
40HQ	31	635	1800x1130x1170	858
	35	715	1800x1130x1330	

#### 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/m<sup>2</sup>

#### MODULE DIAGRAM:

