






# 430M-450M Monofacial Series(166)

## EGYO-HSC(FB) Monocrystalline Half-Cut Solar Module



Colour	Full Black
Cables	1200mm in length
Dimension	2094x1038x30mm

### KEY FEATURES

-  **MBB Half-Cut Solar Cell:**  
144 cells (6X24); 9 busbar solar cell.
-  **Higher Module Conversion Efficiency:**  
Higher module output up to 445W with module efficiency up to 20.47%.
-  **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

**25** YEARS  
PRODUCT  
WARRANTY

**30** YEARS LINEAR  
POWER  
WARRANTY

## 166mm SERIES, 72-CELL HALF-CUT SERIES ALL BLACK

### ELECTRICAL PERFORMANCE

Module type: EGYOHSC(FB)	430M / 435M / 440M / 445M / 450M
Maximum Power(Wp)	430W 435W 440W 445W 450W
Open circuit Voltage(Voc)	48.50V 48.70V 48.90V 49.10V 49.30V
Short circuit Current(Isc)	11.31A 11.39A 11.46A 11.53A 11.60A
Maximum Power Voltage(Vm)	40.70V 40.90V 41.10V 41.30V 41.50V
Maximum Power Current(Imp)	10.57A 10.64A 10.71A 10.78A 10.85A
Module efficiency	19.78% 20.01% 20.24% 20.47% 20.70%
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
Operating Temperature	-40°C...+85°C
Normal Operating Cell Temperature	45±2°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: EGYOHSC(FB)	430M / 435M / 440M / 445M / 450M
Maximum Power(Wp)	325W 329W 332.5W 336.5W 340W
Open circuit Voltage(Voc)	45.55V 44.75V 45.95V 46.15V 46.35V
Short circuit Current(Isc)	8.99A 9.06A 9.11A 9.17A 9.22A
Maximum Power Voltage(Vm)	38.40V 38.60V 38.80V 39.00V 39.20V
Maximum Power Current(Imp)	8.46A 8.51A 8.57A 8.62A 8.68A

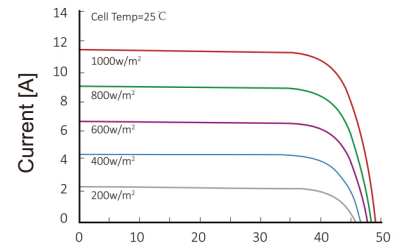
### MECHANICAL CHARACTERISTICS

Front cover (material / thickness)	low-iron tempered glass / 3.2mm
Backsheet (color)	TPT in Black
Cell (quantity / material / dimensions)	144(6x24) / 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> , 1200mm in length,length can be customized
Module Dimensions (L / W / H)	2094x1038x30mm
Module Weight	24kg
Application class	Class A
Electrical protection class	Class II
Fire safety class	Class C

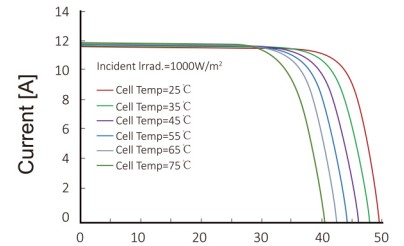
### PACKING

Container Size	Units/Pallet (PCS)	Weight/Pallet (KG)	Pallet Measurement (mm)	Units/Container (PCS)
40HQ	36	879	2120x1120x1170	836
	40	975	2120x1120x1320	

### 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:

