



EGYO-HSC(FB)

Monocrystalline Half-Cut Solar Module



430M-450M

Monofacial Series(166)

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**

12

**YEARS
PRODUCT
WARRANTY**

25

**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 ² , 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

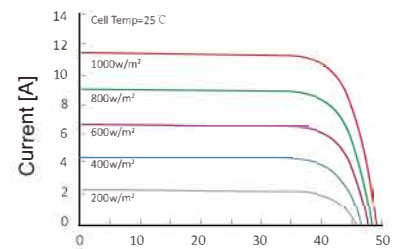
MECHANICAL CHARACTERISTICS

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 ² , 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

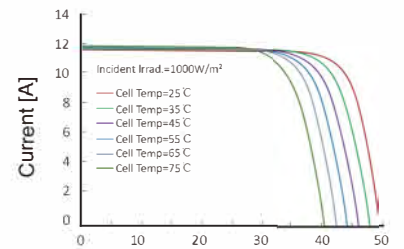
PACKING

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/m²

MODULE DIAGRAM:

