








525M-550M Monofacial Series(182)

EGYO-72HC(SF) Monocrystalline Half-Cut Solar Module



Colour	Silver frame
Cables	1200mm in length
Dimension	2279x1134x35mm

KEY FEATURES

-  **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.

+ WATTS
POSITIVE
TOLERANCE

12 YEARS
PRODUCT
WARRANTY

25 YEARS LINEAR
POWER
WARRANTY

182mm SERIES, 72-CELL HALF-CUT SERIES

ELECTRICAL PERFORMANCE

Module type: EGYO-72HC	525M	530M	535M	540M	545M	550M
Maximum Power(Wp)	525W	530W	535W	540W	545W	550W
Open circuit Voltage(Voc)	49.05V	49.20V	49.35V	49.50V	49.65V	49.80V
Short circuit Current(Isc)	13.65A	13.71A	13.78A	13.85A	13.92A	13.98A
Maximum Power Voltage(Vm)	41.20V	41.35V	41.50V	41.65V	41.80V	41.95V
Maximum Power Current(Imp)	12.75A	12.82A	12.90A	12.97A	13.04A	13.12A
Module efficiency	20.3%	20.5%	20.7%	20.9%	21.1%	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					
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: EGYO-72HC	525M	530M	535M	540M	545M	550M
Maximum Power(Wp)	397W	400.5W	404.5W	408.5W	412W	416W
Open circuit Voltage(Voc)	46.05V	46.20V	46.35V	46.50V	46.65V	46.8V
Short circuit Current(Isc)	10.85A	10.90A	10.95A	11.00A	11.07A	11.11A
Maximum Power Voltage(Vm)	38.90V	39.05V	39.20V	39.35V	39.50V	39.65V
Maximum Power Current(Imp)	10.20A	10.26A	10.32A	10.38A	10.43A	10.51A

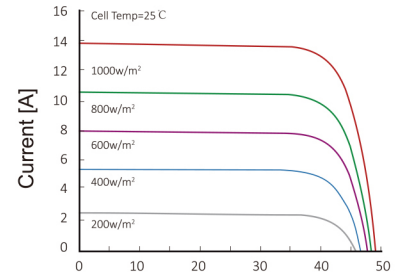
MECHANICAL CHARACTERISTICS

Front cover (material / thickness)	low-iron tempered glass / 3.2mm
Backsheet (color)	TPT in white
Cell (quantity / material / dimensions)	144(6x24) / monocrystalline silicon,bifacial
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)	2279x1134x35mm
Module Weight	27.2kg
Application class	Class A
Electrical protection class	Class II
Fire safety class	Class C

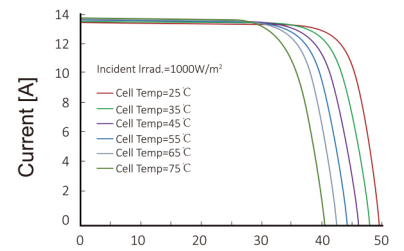
PACKING

Container Size	Units/Pallet (PCS)	Weight/Pallet (KG)	Pallet Measurement (mm)	Units/Container (PCS)
40HQ	31	895	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:

