

TOPCon

415M-430M

N-Type Mono-crystalline






EGYO Pro-54HC(BK)

Monocrystalline Half-Cut Solar Module



Colour	Full Black
Cables	1200mm in length
Dimension	1722x1134x30mm

KEY FEATURES

-  **MBB Half-Cut Solar Cell:**
108 cells (6X9X2).
-  **Higher Module Conversion Efficiency:**
Higher module output up to 430W with module efficiency up to 22%.
-  **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 instal 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

182mm , 54-CELL HALF-CUT SERIES

ELECTRICAL PERFORMANCE

Module type: EGYO Pro-54HC(BK)	415M / 420M / 425M / 430M
Maximum Power(Wp)	415W 420W 425W 430W
Open circuit Voltage(Voc)	37.80V 38.00V 38.20V 38.40V
Short circuit Current(Isc)	13.76A 13.87A 13.98A 14.09A
Maximum Power Voltage(Vm)	31.76V 31.93V 32.10V 32.27V
Maximum Power Current(Imp)	13.06A 13.15A 13.24A 13.33A
Module efficiency	21.3% 21.5% 21.8% 22.0%
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	+0.043%/°C
Temperature-Coefficient Voc	-0.24%/°C
Temperature-Coefficient Pmpp	-0.30%/°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 Pro-54HC(BK)	415M / 420M / 425M / 430M
Maximum Power(Wp)	312.1W 315.8W 319.6W 323.4W
Open circuit Voltage(Voc)	35.91V 36.10V 36.29V 36.48V
Short circuit Current(Isc)	11.11A 11.20A 11.28A 11.37A
Maximum Power Voltage(Vm)	29.90V 30.06V 30.21V 30.37V
Maximum Power Current(Imp)	10.44A 10.51A 10.58A 10.65A

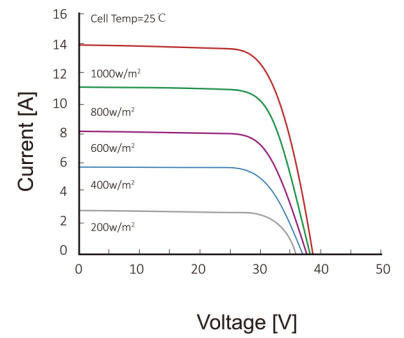
MECHANICAL CHARACTERISTICS

Front cover (material / thickness)	low-iron tempered glass / 3.2mm
Backsheet (color)	TPT in black
Cell (quantity / material / dimensions)	108(6x9x2) / 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)	1722x1134x30mm
Module Weight	20.5 kg
Application class	Class A
Electrical protection class	Class II
Fire safety class	Class C

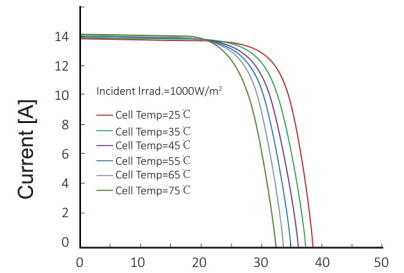
PACKING

Container Size	Units/Pallet (PCS)	Weight/Pallet (KG)	Pallet Measurement (mm)	Units/Container (PCS)
40HQ	36	763	1770x1130x1260	936

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:

