

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 |

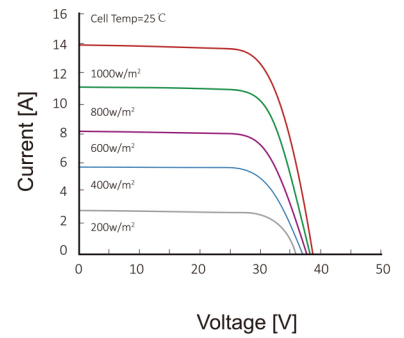
MECHANICAL CHARACTERISTICS

| | |
|---|---|
| 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 |

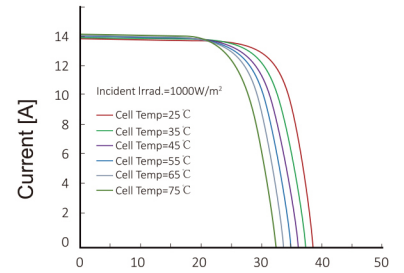
PACKING

| 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:

