



➤ **RMHT54/420~440AB2**
420~440 Watt

182mm 16BB mono 108Cells

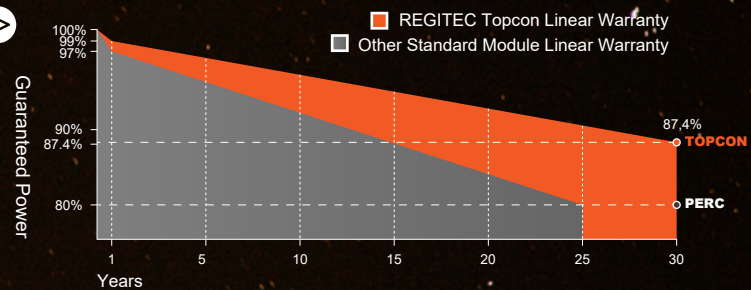
TOPCon Bifacial PV Module

All Black Glass/Glass Design



30 years product warranty

30 years performance warranty



➤ **PRODUCT FEATURE**



Bifaciality
>85%



SMBB
Technology
Half Cut
Topcon Cell



Excellent
performance
in low-light
environments



High quality
junction box and
connector
systems



100% inspection,
to guarantee
the reliability of
solar systems



Anti LID



Anti PID



Lower
temperature
coefficient



Quality RFID
Tracking

➤ **MANAGEMENT SYSTEM**



ISO 9001:
Quality Management System



ISO 14001:
Standard for environmental management system



OHSAS 18001:
International standard for occupational health
and safety assessment system

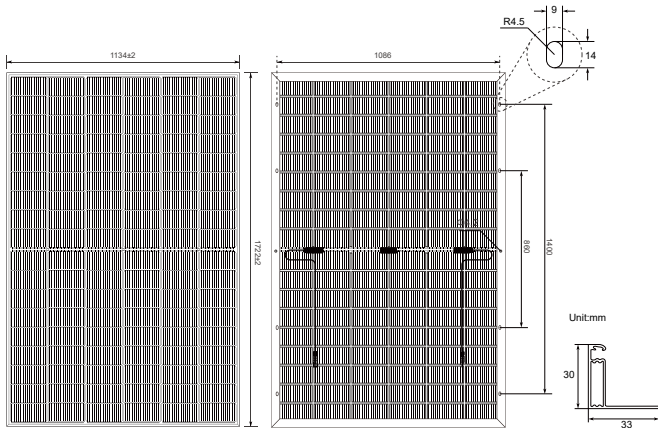
➤ **PRODUCT CERTIFICATES**



Solutions



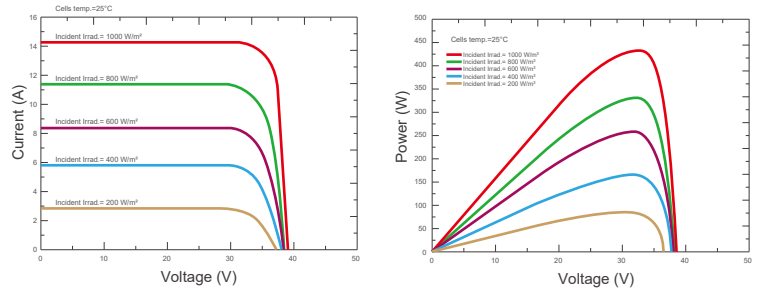
Dimension Drawing



All Dimensions in mm
 The above drawing is a graphical representation of the product.
 For engineering quality drawings please contact REGITEC.

I-V Graph

Current-Voltage & Power-Voltage Curves (RMHT54/440AB2)



Electrical Characteristics (STC/NOCT)

| Module Type | RMHT54/420AB2 | | RMHT54/425AB2 | | RMHT54/430AB2 | | RMHT54/435AB2 | | RMHT54/440AB2 | |
|---------------------------------|-------------------------|-------|---------------|-------|---------------|-------|---------------|-------|---------------|-------|
| | STC | NOCT | STC | NOCT | STC | NOCT | STC | NOCT | STC | NOCT |
| Maximum Power- Pmax(W) | 420 | 319.1 | 425 | 322.8 | 430 | 326.5 | 435 | 330.2 | 440 | 333.9 |
| Open Circuit Voltage - Voc(V) | 38.11 | 36.1 | 38.3 | 36.2 | 38.49 | 36.4 | 38.68 | 36.5 | 38.87 | 36.6 |
| Short- Circuit Current - Isc(A) | 14.07 | 11.34 | 14.15 | 11.41 | 14.23 | 11.47 | 14.31 | 11.53 | 14.39 | 11.59 |
| Voltage at Pmax -Vmp(V) | 31.51 | 29.7 | 31.7 | 29.9 | 31.88 | 30.1 | 32.07 | 30.3 | 32.26 | 30.5 |
| Current at Pmax - Imp(A) | 13.33 | 10.74 | 13.41 | 10.8 | 13.49 | 10.87 | 13.57 | 10.9 | 13.64 | 10.95 |
| Module Efficiency -ηm(%) | 21.50 | / | 21.8 | / | 22.02 | / | 22.27 | / | 22.53 | / |
| Power Tolerance(W) | (0~+4.99W) | | | | | | | | | |
| Maximum System Voltage(V) | 1000/1500Vdc (IEC / UL) | | | | | | | | | |
| Maximum Series Fuse Rating (A) | 25A | | | | | | | | | |

 STC : Irradiance 1000W/m², Cell Temperature 25°C, Air Mass 1.5

 NOCT : Irradiance 800W/m², Ambient Temperature 20°C, Air Mass 1.5, Wind Speed 1m/s

Mechanical Specifications

| | |
|---------------------|---|
| External Dimensions | 1722x1134x30mm |
| Weight | 22kg |
| Solar Cells | TOPCon mono crystalline 182x91mm (2x54pcs) |
| Glass | Front ARC Solar Glass 1.6mm , Back Toughened Glass 1.6mm |
| Frame | Anodized aluminum alloy |
| Junction Box | IP68 |
| Output Cables | 4.0mm ² , 100cm(+), 100cm(-), length can be customized |
| Connector | Stäubli MC4 |
| Mechanical Load | Front Side Max. 5400Pa, Rear Side Max. 2400Pa |

Rear Side Power Gain

| Power Gain | 10% | 15% | 20% | 25% | 30% |
|---------------------------------|-------|-------|-------|-------|-------|
| Maximum Power- Pmax(W) | 473.0 | 494.5 | 516.0 | 537.5 | 554.0 |
| Open Circuit Voltage - Voc(V) | 38.60 | 38.70 | 38.80 | 38.80 | 38.90 |
| Short- Circuit Current - Isc(A) | 15.70 | 16.44 | 17.18 | 17.93 | 18.50 |
| Voltage at Pmax -Vmp(V) | 31.70 | 31.60 | 31.60 | 31.60 | 31.50 |
| Current at Pmax - Imp(A) | 14.94 | 15.64 | 16.33 | 17.04 | 17.58 |

Packing Configuration

| | |
|-----------------------|----------------|
| | 1722x1134x30mm |
| Container | 40'HQ |
| Pieces per Pallet | 36 |
| Pallets per Container | 26 |
| Pieces per Container | 936 |

Temperature Characteristics

| | |
|--|------------|
| Pmax Temperature Coefficient | -0.300%/°C |
| Voc Temperature Coefficient | -0.250%/°C |
| Isc Temperature Coefficient | +0.04%/°C |
| Operating Temperature | -40~ +85°C |
| Nominal Operating Cell Temperature(NOCT) | 45±2°C |