

## > RMHT48/405~425O2 405~425 Watt

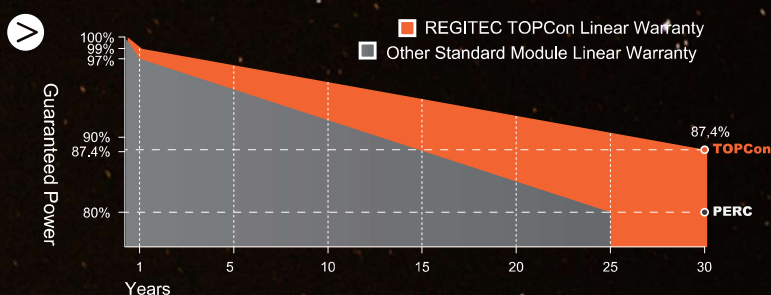
210R 16BB mono 96Cells

**TOPCon Bifacial PV Module**

Terracotta/Orange Glass/Glass Design

> **30** years product warranty

**30** years performance warranty



## > PRODUCT FEATURE



Bifaciality  
>85%



SMBB  
Technology  
Half Cut  
N Type 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

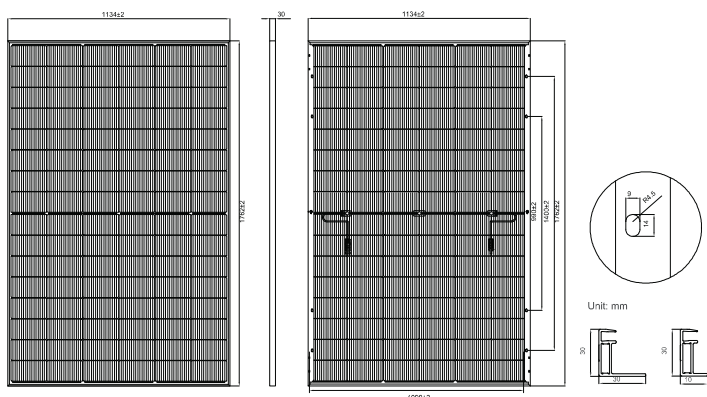
## > PRODUCT CERTIFICATES



**Solutions**



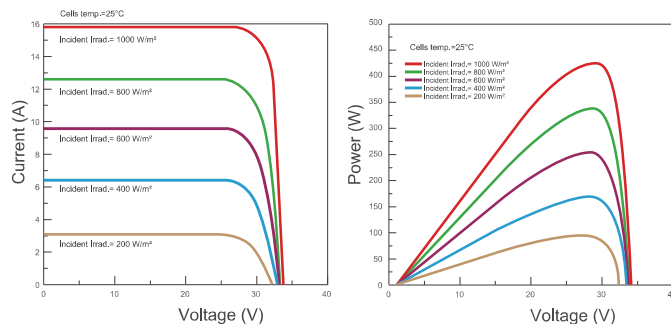
## Dimension Drawing



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 (RMHT48/425O2)



## Electrical Characteristics (STC/NOCT)

| Module Type                     | RMHT48/405O2       |       | RMHT48/410O2 |       | RMHT48/415O2 |       | RMHT48/420O2 |       | RMHT48/425O2 |       |
|---------------------------------|--------------------|-------|--------------|-------|--------------|-------|--------------|-------|--------------|-------|
|                                 | STC                | NOCT  | STC          | NOCT  | STC          | NOCT  | STC          | NOCT  | STC          | NOCT  |
| Maximum Power- Pmax(W)          | 405                | 305.8 | 410          | 309.5 | 415          | 313.2 | 420          | 316.9 | 425          | 320.6 |
| Open Circuit Voltage - Voc(V)   | 33.25              | 31.23 | 33.33        | 31.42 | 33.41        | 31.61 | 33.49        | 31.80 | 33.57        | 31.99 |
| Short- Circuit Current - Isc(A) | 15.46              | 12.51 | 15.57        | 12.56 | 15.68        | 12.61 | 15.79        | 12.66 | 15.90        | 12.71 |
| Voltage at Pmax -Vmp(V)         | 28.18              | 26.69 | 28.4         | 26.85 | 28.62        | 27.01 | 28.84        | 27.17 | 29.06        | 27.33 |
| Current at Pmax - Imp(A)        | 14.37              | 11.45 | 14.44        | 11.52 | 14.50        | 11.59 | 14.56        | 11.66 | 14.62        | 11.73 |
| Module Efficiency -ηm(%)        | 20.27              | /     | 20.52        | /     | 20.77        | /     | 21.02        | /     | 21.27        | /     |
| Power Tolerance(W)              | (0~+4.99W)         |       |              |       |              |       |              |       |              |       |
| Maximum System Voltage(V)       | 1500Vdc (IEC / UL) |       |              |       |              |       |              |       |              |       |
| Maximum Series Fuse Rating (A)  | 30A                |       |              |       |              |       |              |       |              |       |

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

## Mechanical Specifications

|                     |                                                          |
|---------------------|----------------------------------------------------------|
| External Dimensions | 1762x1134x30mm                                           |
| Weight              | 23.5kg                                                   |
| Solar Cells         | N-Type 16BB 182x105mm (2x48pcs)                          |
| Glass               | Front ARC Solar Glass 2.0mm , Back Toughened Glass 1.6mm |
| Frame               | Anodized aluminum alloy                                  |
| Junction Box        | IP68                                                     |
| Output Cables       | 4.0mm² , 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)          | 468   | 489   | 510   | 531   | 553   |
| Open Circuit Voltage - Voc(V)   | 33.57 | 33.57 | 33.57 | 33.57 | 33.57 |
| Short- Circuit Current - Isc(A) | 17.53 | 18.31 | 19.10 | 19.88 | 20.69 |
| Voltage at Pmax -Vmp(V)         | 29.06 | 29.06 | 29.06 | 29.06 | 29.06 |
| Current at Pmax - Imp(A)        | 16.10 | 16.83 | 17.55 | 18.27 | 19.03 |

## Packing Configuration

|                       |                  |
|-----------------------|------------------|
| Pallet Dimensions     | 1780x1125x1244mm |
| Container             | 40'HQ            |
| Pieces per Pallet     | 36               |
| Pallets per Container | 26               |
| Pieces per Container  | 936              |

## Temperature Characteristics

|                                    |            |
|------------------------------------|------------|
| Pmax Temperature Coefficient       | -0.290%/°C |
| Voc Temperature Coefficient        | -0.250%/°C |
| Isc Temperature Coefficient        | +0.045%/°C |
| Operating Temperature              | -40~+85°C  |
| Nominal Operating Cell Temperature | 45±2°C     |