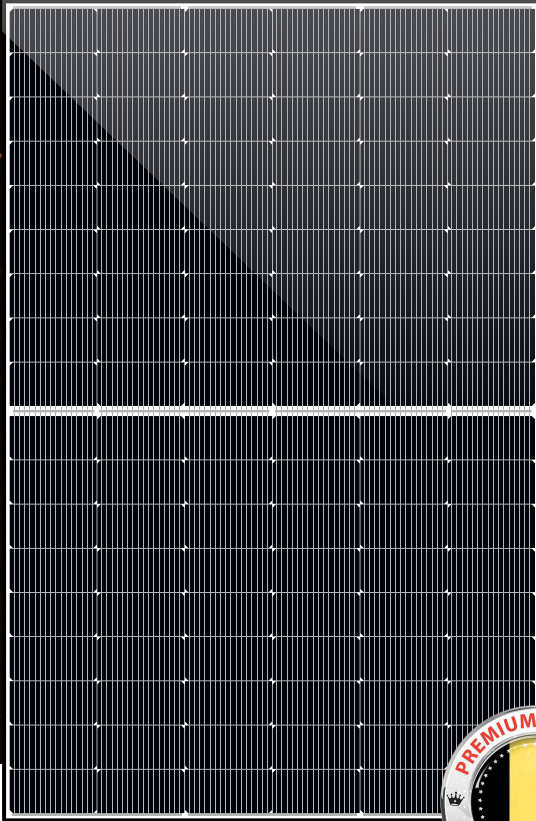


> **RMHT54/420~440B1**  
**420~440 Watt**

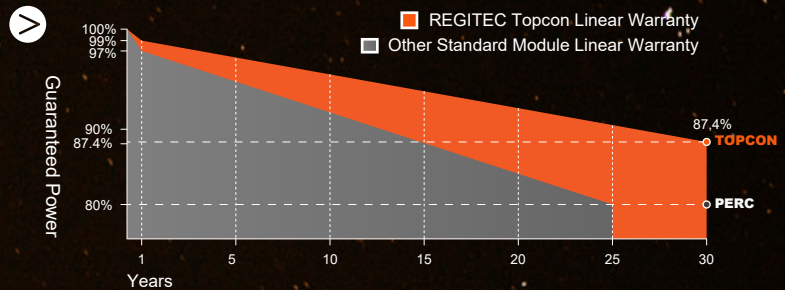
182mm 16BB mono 108Cells Black Frame PV Solar Module  
**TOPCon PV Module**

**BLACK** \*BLACK FRAME/BLACK BACK-SHEET PRODUCTS ARE AVAILABLE UPON REQUEST



> **25** years product warranty

**30** years performance warranty



> **PRODUCT FEATURE**

- High transmissivity, low-iron tempered glass.
- 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

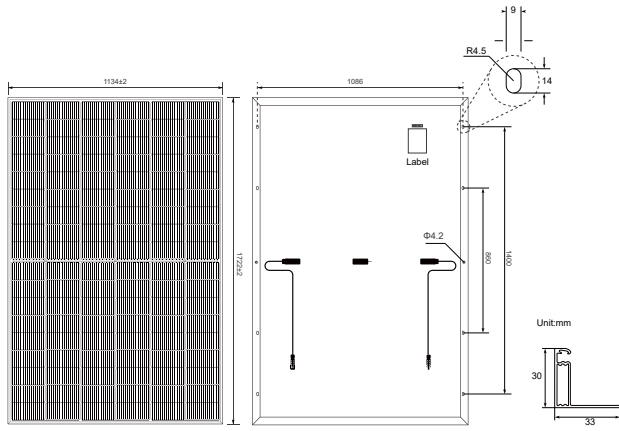
> **MANAGEMENT SYSTEM**

- 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**



## Dimension Drawing

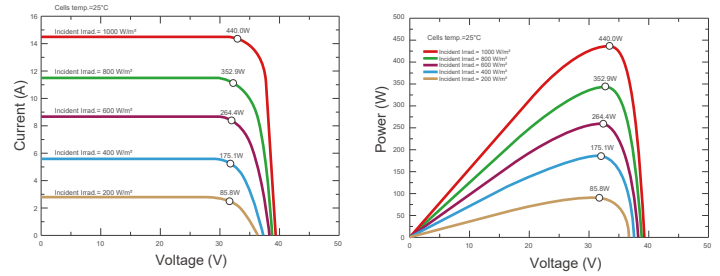


All Dimensions in mm

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 (RMHT54/440B1)



## Electrical Characteristics (STC/NOCT)

Module Type	RMHT54/420B1		RMHT54/425B1		RMHT54/430B1		RMHT54/435B1		RMHT54/440B1	
	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	/	21.80	/	22.02	/	22.27	/	22.53	/
Power Tolerance(W)	(0, +4.99W)									
Maximum System Voltage(V)	1500Vdc (IEC / UL)									
Maximum Series Fuse Rating (A)	25A									

STC : Irradiance 1000W/m<sup>2</sup> , Cell Temperature 25°C, Air Mass 1.5

NOCT : Irradiance 800W/m<sup>2</sup> , Ambient Temperature 20°C, Air Mass 1.5, Wind Speed 1m/s

## Mechanical Specifications

External Dimensions	1722x1134x30mm
Weight	22kg
Solar Cells	Mono crystalline 182mm (2x54pcs)
Glass	AR Coated 3.2 mm tempered glass
Frame	Anodized aluminum alloy
Junction Box	IP68
Output Cables	4.0mm <sup>2</sup> , 100cm (+), 100cm (-), length can be customized
Connector	MC4 Compatible
Mechanical Load	Front Side Max. 5400Pa, Rear Side Max. 2400Pa

## 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	-0.25%/°C
Isc Temperature Coefficient	+0.04%/°C
Operating Temperature	-40~+85°C
Nominal Operating Cell Temperature(NOCT)	45±2°C