

MONO CRYSTALLINE HALF-CUT CELL MODULE

390 / 395 / 400 / 405 / 410 / 415 / 420 Watts

Black Panther



Overview

Ground breaking technology; higher power output of up to 10W, improved system performance - the ideal solution for end users who want a fast turnaround on their investments. A fully certified premium quality and high efficiency module made with A Grade materials.

Key Benefits



Certified by Independent Engineering Bodies



Boost Power Output up to 10W



Engineered in EU



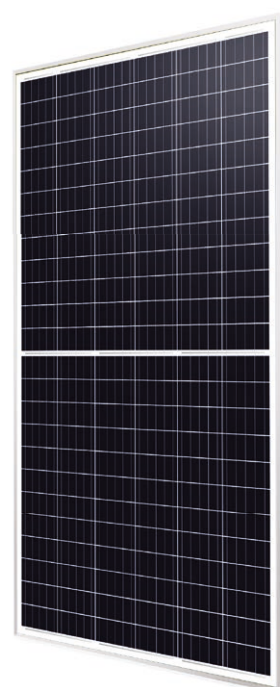
Reduce Resistive Losses



Better Performance in Reduced Irradiance Conditions



Higher Light Conversion



Guaranteed mechanical resistance to severe weather conditions



Guaranteed Positive Tolerance up to 5W

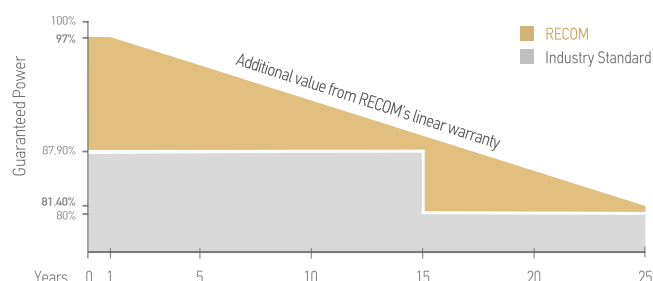


100 % electro-luminescence tested

Tests, Certifications and Warranties

Standard Tests	IEC 61215, IEC 61730
Factory Quality Tests	ISO 9001: 2008, ISO 14001: 2004
Certifications	Fire Rating Type 1, conformity to CE, PV CYCLE
Insurance	Product liability insurance provided by Allianz
Surface Maximum Load Capacity	Above 5400Pa
Positive Tolerance	Guaranteed positive tolerance of up to 5W
Junction Box	IP68 Rated, 3 diodes
Warranties	• 15-year limited product warranty • 15-year manufacturer warranty on 87.90% of the nominal performance • 25-year transferable linear power output warranty

Linear Performance Warranty



First Year Output $\geq 97\%$ 2-24 Year Decline $\leq 0.65\%$ 25 Year Output $\geq 81.4\%$

MONO CRYSTALLINE HALF-CUT CELL MODULE

RCM-xxx-6MF (xxx=390-420)

Electrical Characteristics

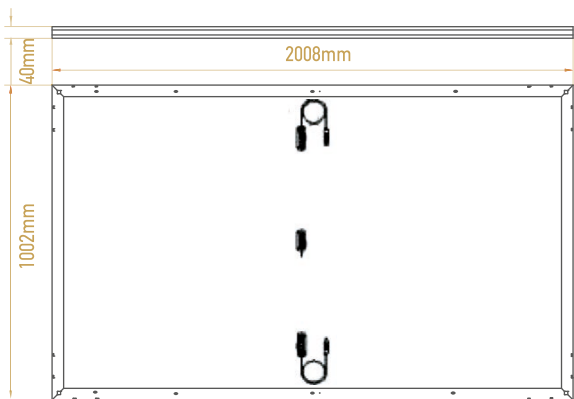
Rated Power	390W	395W	400W	405W	410W	415W	420W
Power Tolerance	0~+5W	0~+5W	0~+5W	0~+5W	0~+5W	0~+5W	0~+5W
Maximum Power Voltage (Vmp)	41.00V	41.25V	41.50V	42.30V	42.60V	42.90V	43.20V
Maximum Power Current (Imp)	9.51A	9.58A	9.64A	9.58A	9.63A	9.67A	9.72A
Open Circuit Voltage (Voc)	49.30V	49.50V	49.70V	49.80V	50.00V	50.20V	50.40V
Short Circuit Current (Isc)	10.12A	10.21A	10.30A	10.21A	10.25A	10.29A	10.33A
Module Efficiency	19.00%	19.30%	19.60%	20.10%	20.40%	20.60%	20.90%
Maximum Series Fuse	20A	20A	20A	20A	20A	20A	20A
Maximum System Voltage	1.000 / 1.500 VDC (IEC)						

Tested at Standard Test Conditions. Measurement tolerances: ± 3%

Mechanical Data

Dimensions	2008mm x 1002mm x 40mm
Weight	22.5 Kg
Cell amount	72 x 2 pcs
Junction Box	IP68
Frame	Aluminum Alloy
Output Cables	4.0mm ² Lengths Landscape: (-) 1300mm and (+) 1300mm, Portrait: (-) 150mm and (+) 300mm
Connector	MC4 compatible
Application Level	Class A

Dimensions



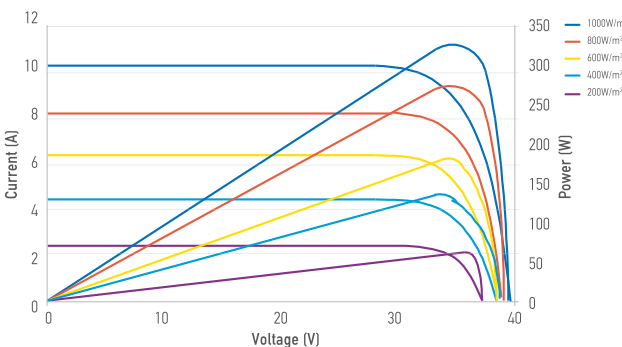
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I-V Curve

The module relative power loss at low light irradiance of 200W/m² is less than 3%.



Temperature Characteristics

Pmax Temperature Coefficient	-0.36% / °C
Voc Temperature Coefficient	-0.28% / °C
Isc Temperature Coefficient	+0.05% / °C
Operating Temperature	-40~+85 °C
Nominal Operating Module Temperature (NMOT)	45 ± 3 °C

Packing Configuration

Container	40'
Pieces per Pallet	26
Pallets per Container	22
Pieces per Container	616/572

**Release RCM-xxx-6MF(XXX=390-420)-5/9-61-40-5W- 002-2020-02-ver4.0