

MONO CRYSTALLINE HALF-CUT CELL MODULE

285 / 290 / 295 / 300 / 305 / 310 / 315 / 320 / 325 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



Manufactured & Tested at European Standards



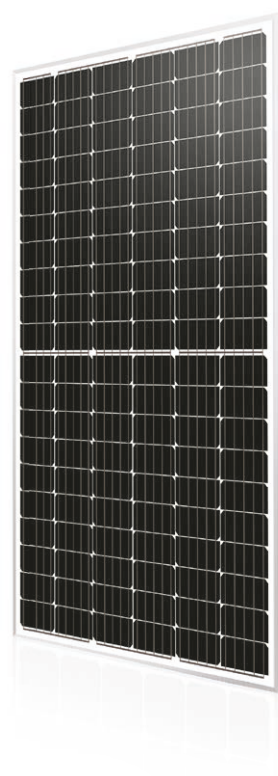
Reduce Resistive Losses



Better Performance in Reduced Irradiance Conditions



Higher Light Conversion



Guaranteed mechanical resistance to severe weather conditions



Guaranteed Positive Tolerance up to 5W

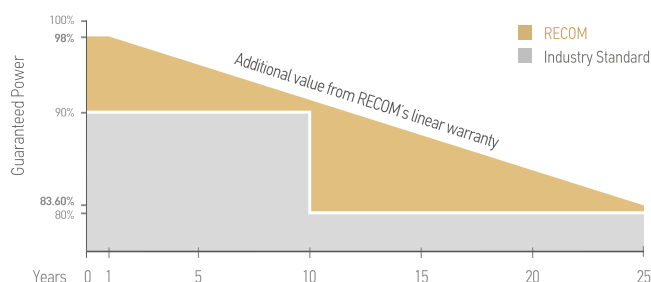


100 % electro-luminescence tested

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	IP67 Rated, 3 diodes
Warranties	<ul style="list-style-type: none"> • 15-year limited product warranty • 15-year manufacturer warranty on 88.55% of the nominal performance • 25-year transferable linear power output warranty

Linear Performance Warranty



First Year Output $\geq 98\%$ 2-24 Year Decline $\leq 0.60\%$ 25 Year Output $\geq 83.60\%$

MONO CRYSTALLINE HALF-CUT CELL MODULE

RCM-xxx-6MH (xxx=285-325)

Electrical Characteristics

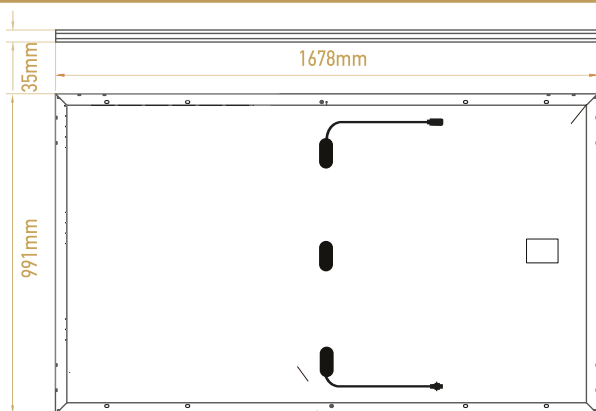
Rated Power	285W	290W	295W	300W	305W	310W	315W	320W	325W
Power Tolerance	0~+5W	0~+5W	0~+5W	0~+5W	0~+5W	0~+5W	0~+5W	0~+5W	0~+5W
Maximum Power Voltage (Vmp)	31.30V	31.60V	31.90V	32.20V	32.50V	32.80V	33.10V	33.40V	33.70V
Maximum Power Current (Imp)	9.11A	9.18A	9.25A	9.32A	9.39A	9.46A	9.52A	9.59A	9.66A
Open Circuit Voltage (Voc)	38.30V	38.50V	38.70V	39.00V	39.30V	39.60V	39.90V	40.13V	40.40V
Short Circuit Current (Isc)	9.65A	9.73A	9.84A	9.91A	9.96A	10.03A	10.10A	10.18A	10.26A
Module Efficiency	17.14%	17.44%	17.74%	18.04%	18.34%	18.64%	18.94%	19.24%	19.54%
Maximum Series Fuse	25A	25A	25A	25A	25A	25A	25A	25A	25A
Maximum System Voltage	1.000 VDC / 1.500 VDC								

Tested at Standard Test Conditions. Measurement tolerances: $\pm 3\%$

Mechanical Data

Dimensions	1678mm x 991mm x 35mm
Weight	18.6 Kg
Frame	Anodized aluminum
Cell number	120 (6 x 20)
Front Glass	3.2mm ARC, low iron, tempered glass
Output Cables	TUV (2Pfg1169:2007), UL 4703, UL44 4.0mm ² (0.006 in ²), MC4 type connectors

Dimensions

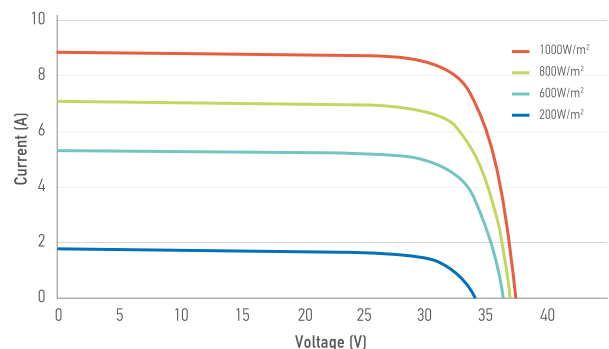


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I-V Curve

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



Temperature Characteristics

Pmax Temperature Coefficient	-0.41% / °C
Voc Temperature Coefficient	-0.32% / °C
Isc Temperature Coefficient	+0.05% / °C
Operating Temperature	-40~+85 °C
Nominal Operating Cell Temperature (NOCT)	45 \pm 2 °C

Packing Configuration

Container	40'HC
Pieces per Pallet	26
Pallets per Container	24
Pieces per Container	624

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