

MONO CRYSTALLINE MODULE

310 / 315 / 320 / 325 Watts

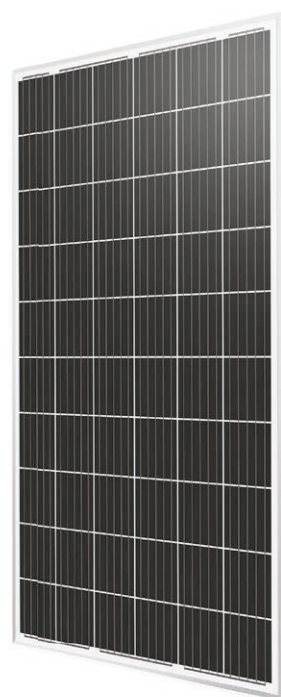
Black Panther

Overview

A fully certified, premium quality and high efficiency module made with A Grade materials. Guaranteed positive tolerance of up to 5W, providing a higher output compared to our leading competitors.

Key Benefits

	Certified by Independent Engineering Bodies		Product Liability Insurance
	Engineered in EU		15 Years Limited Product Warranty
	Anti-PID Technology		Low Carbon Footprint



Guaranteed mechanical resistance to severe weather conditions



Guaranteed Positive Tolerance up to 5W

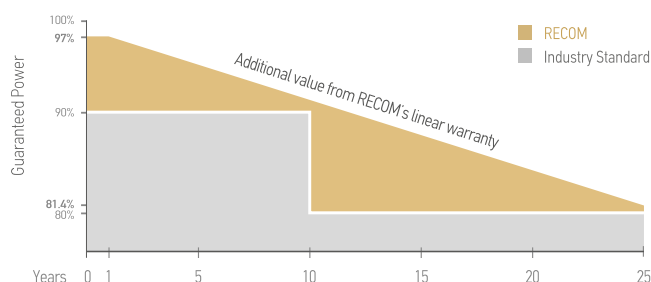


100 % electro-luminescence tested

Tests, Certifications and Warranties

Standard Tests	IEC 61215, IEC 61730
Factory Quality Tests	ISO 9001: 2008, ISO 14001: 2004
Certifications	Conformity to CE, PV CYCLE
Insurance	Product liability insurance provided by Allianz
Wind and Snow Loads Testing	Module certified to withstand extreme wind (2400 Pascal) and snow loads (5400 Pascal)
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 $\geq 97\%$ 2-24 Year Decline $\leq 0.65\%$ 25 Year Output $\geq 81.4\%$

MONO CRYSTALLINE MODULE

RCM-xxx-6MB-G1 (xxx=310-325)

Electrical Characteristics

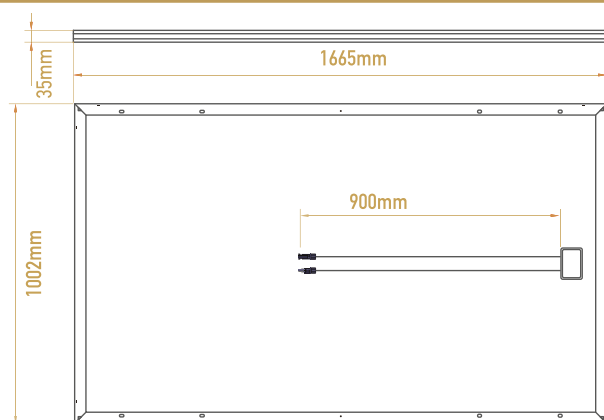
Rated Power	310W	315W	320W	325W
Power Tolerance	0~+5W	0~+5W	0~+5W	0~+5W
Maximum Power Voltage (Vmp)	33.00V	33.20V	33.40V	33.60V
Maximum Power Current (Imp)	9.40A	9.49A	9.59A	9.68A
Open Circuit Voltage (Voc)	40.30V	40.50V	40.70V	40.90V
Short Circuit Current (Isc)	9.89A	9.98A	10.07A	10.16A
Module Efficiency	18.58%	18.88%	19.18%	19.48%
Maximum Series Fuse	16A	16A	16A	16A
Maximum System Voltage	1.000 VDC (IEC) - 1.000 VDC (UL) / 1.500 VDC (upon request)			

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

Mechanical Data

Dimensions	1665mm x 1002mm x 35mm
Weight	19.0 Kg
Frame	Anodized aluminum
Front Glass	3.2mm ARC, low iron, tempered glass
Output Cables	TUV (2Pfg1169:2007), UL 4703, UL44 4.0mm ² (0.006 in ²), symmetrical lengths (-) 900mm and (+) 900mm, MC4 type connectors

Dimensions

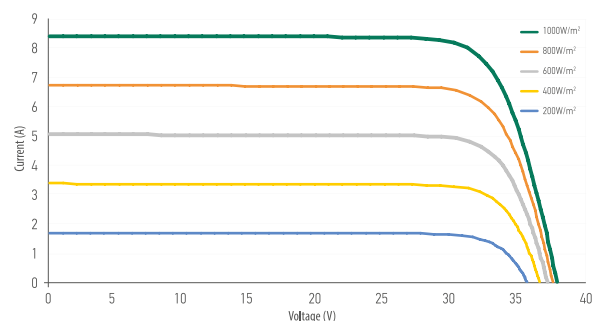


**Release 2019-05, v6.3.

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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	-0.37% / °C
Voc Temperature Coefficient	-0.28% / °C
Isc Temperature Coefficient	+0.048% / °C
Operating Temperature	-40~+85 °C
Nominal Operating Cell Temperature (NOCT)	45 \pm 2 °C

Packing Configuration

Container	40'HC
Pieces per Pallet	30
Pallets per Container	28
Pieces per Container	840

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