MONO CRYSTALLINE MODULE

280 / 285 / 290 / 295 / 300 / 305 / 310 / 315 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.



Guaranteed mechanical resistance to severe weather conditions

5W

Guaranteed Positive Tolerance up to 5W

EL

100 % electro-luminescence tested

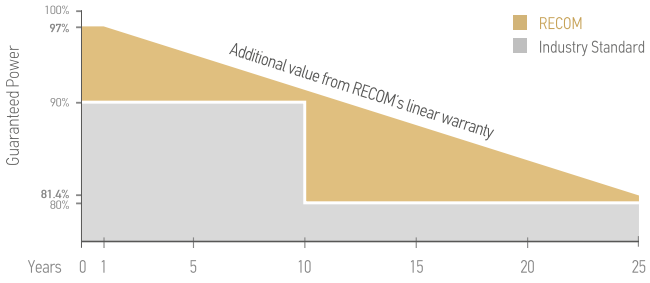
Key Benefits

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

Tests, Certifications and Warranties

Standard Tests	UL1703, 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
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	• 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	≥ 97%	2-24 Year Decline	≤ 0.65%	25 Year Output	≥ 81.4%

MONO CRYSTALLINE MODULE

RCM-xxx-6MB (xxx=280-315)

Electrical Characteristics

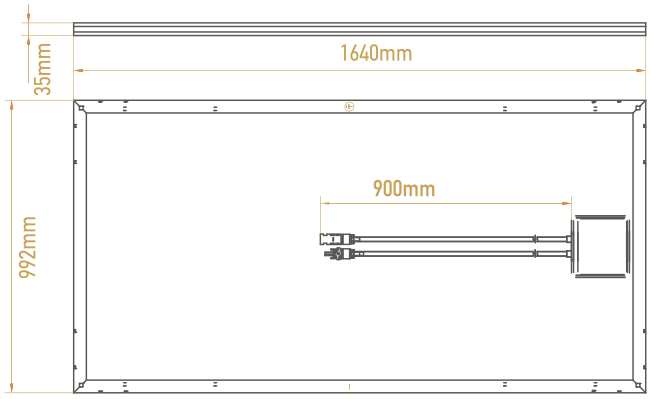
Rated Power	280W	285W	290W	295W	300W	305W	310W	315W
Power Tolerance	0~+5W	0~+5W	0~+5W	0~+5W	0~+5W	0~+5W	0~+5W	0~+5W
Maximum Power Voltage (Vmp)	32.48V	32.58V	32.72V	32.78V	32.83V	33.01V	33.09V	33.26V
Maximum Power Current (Imp)	8.63A	8.75A	8.88A	9.00A	9.14A	9.24A	9.37A	9.47A
Open Circuit Voltage (Voc)	39.20V	39.80V	39.90V	39.93V	39.98V	40.00V	40.20V	40.24V
Short Circuit Current (Isc)	8.99A	9.60A	9.75A	9.83A	9.89A	9.93A	9.97A	9.98A
Module Efficiency	17.21%	17.52%	17.83%	18.13%	18.44%	18.75%	19.05%	19.36%
Maximum Series Fuse	15A	15A	15A	15A	15A	15A	15A	15A
Maximum System Voltage	1.000 VDC (IEC) - 1.000 VDC (UL) / 1.500 VDC (upon request)							

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

Mechanical Data

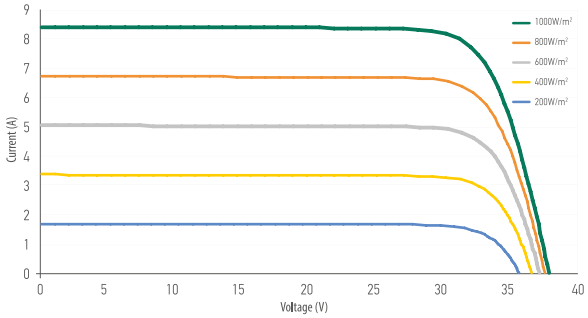
Dimensions	1640mm x 992mm x 35mm
Weight	19.0 Kg
Frame	Anodized aluminum
Front Glass	3.2mm ARC, low iron, tempered glass
Output Cables	TUV (2Pfg1169:2007), UL 4703, UL44 4.0mm² (0.006 in²), symmetrical lengths (-) 900mm and (+) 900mm, MC4 type connectors

Dimensions



I-V Curve

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



Temperature Characteristics

Pmax Temperature Coefficient	-0.39% / °C
Voc Temperature Coefficient	-0.30% / °C
Isc Temperature Coefficient	+0.06% / °C
Operating Temperature	-40~+85 °C
Nominal Operating Cell Temperature (NOCT)	45 ± 2 °C

Packing Configuration

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

**Release 2019-01, v6.2.

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