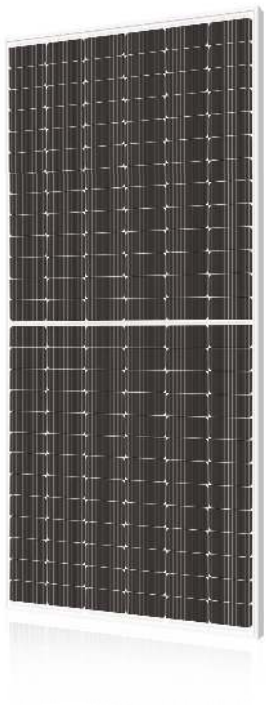
MONO CRYSTALLINE HALF-CUT MODULE

580 / 585 / 590 / 595 / 600 / 605 Watts

Black Panther

Overview

Ground breaking technology; higher power output, 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.



Guaranteed mechanical resistance to severe weather conditions

Positive Tolerance

100 % electro-luminescence tested

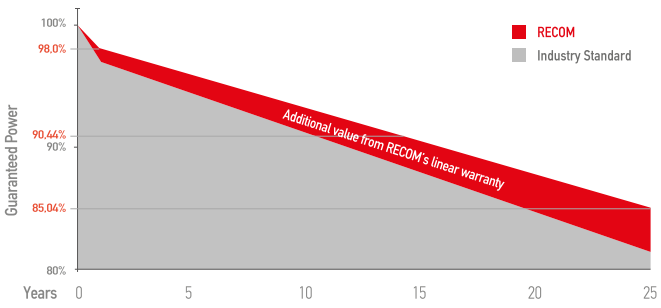
Key Benefits

- Certified by Independent Engineering Bodies
- Product Liability Insurance
- Ultra High Power Output
- 15 Years Limited Product Warranty
- Low Resistive Losses
- Low LCOE

Tests, Certifications and Warranties

Standard Tests	IEC 61215, IEC 61730
Factory Quality Tests	ISO 9001: 2015, ISO 14001: 2015
Certifications	Conformity to CE, PV CYCLE Fire safety Class C according to UL790
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)
Power Tolerance	Guaranteed +0%/+5% (STC condition)
Warranties	• 15-year limited product warranty • 15-year manufacturer warranty on 90.44% of the nominal performance • 25-year transferable linear power output warranty

Linear Performance Warranty



First Year Output	≥ 98%	2-25 Year Decline	≤ 0.54%	25 Year Output	≥ 85.04%

MONO CRYSTALLINE HALF CUT MODULE

RCM-xxx-7MN (xxx=580-605)

Electrical Characteristics

POWER CLASS [1]			580		585		590		595		600		605	
Testing Condition			STC	*NMOT*	STC	*NMOT*	STC	*NMOT*	STC	*NMOT*	STC	*NMOT*	STC	*NMOT*
Maximum Power	Pmax	[Wp]	580	*428*	585	*431*	590	*435*	595	*438*	600	*442*	605	*446*
Maximum Power Voltage	Vmp	[V]	44,40	*41,40*	44,60	*41,60*	44,80	*41,80*	45,00	*42,00*	45,20	*42,20*	45,40	*42,39*
Maximum Power Current	Imp	[A]	13,07	*10,32*	13,12	*10,36*	13,17	*10,41*	13,22	*10,45*	13,27	*10,50*	13,32	*10,54*
Open Circuit Voltage	Voc	[V]	53,30	*49,80*	53,50	*50,00*	53,70	*50,20*	53,90	*50,40*	54,10	*50,60*	54,30	*50,80*
Short Circuit Current	Isc	[A]	13,81	*11,13*	13,87	*11,18*	13,94	*11,23*	14,01	*11,28*	14,08	*11,33*	14,15	*11,38*
Module Efficiency	Eff	[%]	20,94		21,12		21,30		21,48		21,66		21,84	
Maximum Series Fuse	IR	[A]	25											
Maximum System Voltage	VSYS	[V]	1500 DC											

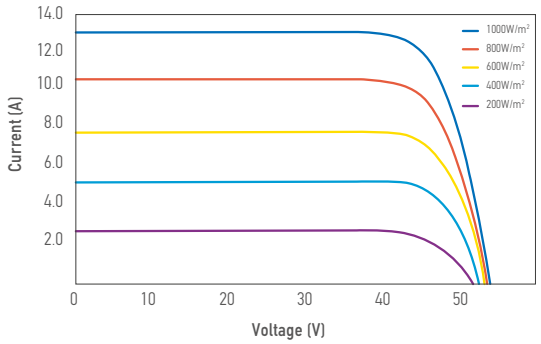
(1) Measurement Tolerances: Pmax (± 3%), Isc & Voc (± 5%) - Power Classification 0/+5W
(2) STC (Standard Testing Condition): Irrandiance 1000W/m², Cell Temperature 25°C, AM 1.5
(3) NMOT (Nominal Operating Module Temperature): Irrandiance 800W/m², NMOT, Ambient Temperature 20°C, AM 1.5, Wind Speed 1m/s

Mechanical Data

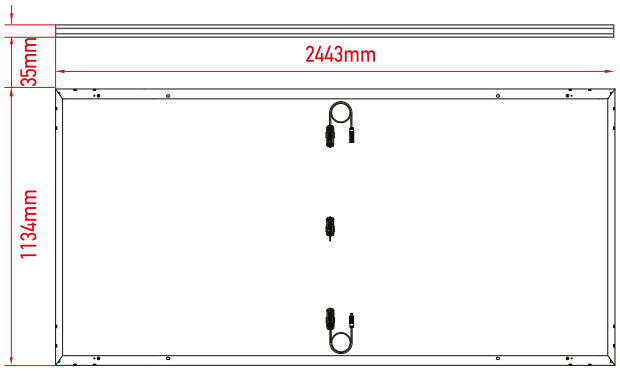
Dimensions	2443mm x 1134mm x 35mm
Weight	31 Kg
Cell Type	Mono Perc - 182mm x 91mm (2 x 78 Pcs) - M10
Front Glass	3.2mm Tempered and low iron glass + ARC
Rear Side	Anti-aging film
Frame	Anodized Aluminium Alloy
Junction Box	IP68 - 3 Bypass Diodes
Connector	MC4 compatible
Output cable	4mm² - Lengths Landscape: (-) 1500mm and (+) 1500mm. Portrait: (-) 200mm and (+) 300mm

I-V Curve

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



Dimensions



RECOM assumes no liability or responsibility for any typographical error, layout error, misinformation, any other error, omission, contained herein.

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)	41 ± 3 °C

Packing Configuration

Container	40' (HC)
Pieces per Pallet	31
Pallets per Container	18
Pieces per Container	(31 + 31) x9= 558 pcs

The specification and key features described in this datasheet may deviate slightly and are not guaranteed. Due to on-going innovation, research and product enhancement, RECOM Solar reserves the right to make any adjustment to the information described herein at any time without notice. Please always obtain the most recent version of the datasheet which shall be duly incorporated into the binding contract made by the parties governing all transactions related to the purchase and sale of the products described herein. Please read the safety and installation instructions before using the modules.

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