

# MONO CRYSTALLINE HALF-CUT MODULE

530 / 535 / 540 / 545 / 550 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.

# **Key Benefits**



Certified by Independent Engineering Bodies



Product Liability Insurance



Ultra High Power Output



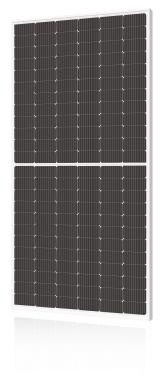
15 Years Limited Product Warranty



Low Resistive Losses



Low LCOE





Guaranteed mechanical resistance to severe weather conditions



Positive Tolerance

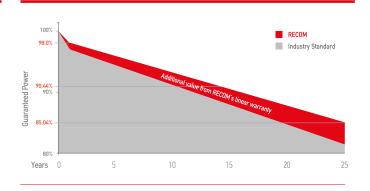


100 % electroluminescence tested

#### 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	<ul> <li>15-year limited product warranty</li> <li>15-year manufacturer warranty on 90.44% of the nominal performance</li> <li>25-year transferable linear power output warranty</li> </ul>

#### **Linear Performance Warranty**



First Year | ≥ 98% 2-25 Year | ≤ 0.54% 25 Year | ≥ 85.04%

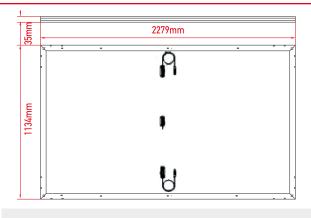
#### **Electrical Characteristics**

POWER CLASS (1)			530		535		540		545		550	
Testing Condition			STC (2)	NMOT <sup>(3)</sup>	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT
Maximum Power	Pmax	[Wp]	530	395	535	399	540	402	545	406	550	410
Maximum Power Voltage	Vmp	[V]	40,80	38,00	41,00	38,20	41,20	38,40	41,40	38,60	41,60	38,80
Maximum Power Current	Imp	[A]	13,00	10,40	13,05	10,44	13,11	10,49	13,17	10,54	13,23	10,58
Open Circuit Voltage	Voc	[V]	49,00	45,90	49,20	46,10	49,40	46,30	49,60	46,40	49,80	46,60
Short Circuit Current	Isc	[A]	13,76	11,09	13,81	11,13	13,87	11,18	13,93	11,23	13,99	11,28
Module Efficiency	Eff	[%]	20,51		20,70		20,90		21,09		21,28	
Maximum Series Fuse	IR	[A]	25									
Maximum System Voltage	Vsys	[V]	1500 DC									

#### Mechanical Data

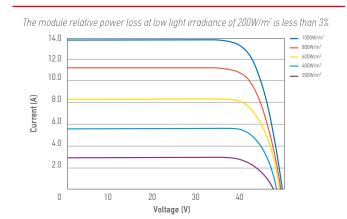
Dimensions	2279mm x 1134mm x 35mm	
Weight	29.0 Kg	
Cell Type	Mono Perc - 182mm x 91mm (2 x 72 Pcs) - M10	
Front Glass	3.2mm Tempered and low iron glass + ARC	
Rear Side	Anti-aging film	
Frame	Anodized Aluminium Alloy	
Junction Box	IP68 - 3 Bypass Diodes	
Connector	MC4 compatible	
Output cable	4.00mm² - Lengths Landscape: 1400mm. Portrait: (-) 200mm and (+) 300mm or customized	

### **Dimensions**



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

#### I-V Curve



## 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	20
Pieces per Container	620

#### recom-solar.com

© Copyright 2021. RECOM

RCM-xxx-7MF(xxx=530-550)-10-M10-35-SW-15V-002-2021-05-v1.0

<sup>(1)</sup> 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