

MONO CRYSTALLINE HALF-CUT MODULE

650 / 655 / 660 / 665 / 670 Watts





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



Ultra High Power Output



Low Resistive Losses



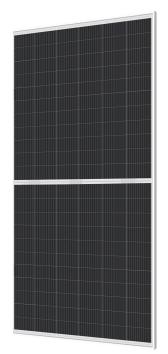
Product Liability Insurance



25 Years Limited Product Warranty



Low LCOE





Guaranteed mechanical resistance to severe weather conditions



Positive Tolerance

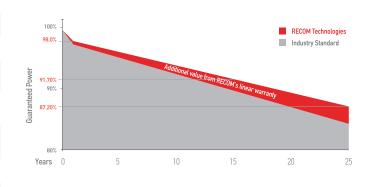


100 % electroluminescence tested

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	Third party liability insurance provided by Liberty Mutual
Wind and Snow Loads Testing	Module certified to withstand extreme wind (2400 Pascal) and snow loads (5400 Pascal)
Power Tolerance	Guaranteed +0/+5W (STC condition)
Warranties	 25-year limited product warranty 15-year manufacturer warranty on 91,70% of the nominal performance 25-year transferable linear power output warranty

Linear Performance Warranty



First Year Output

≥ **98**%

2-25 Year Decline

≤ 0.45%

25 Year Output

≥ **87.20**%



Panther MONO CRYSTALLINE HALF CUT MODULE

RCM-xxx-8MM (xxx=650-670)

Electrical Characteristics

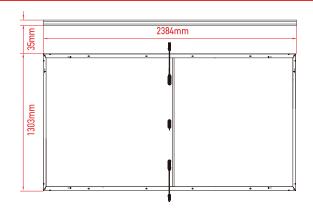
POWER CLASS (1)		650		655		660		665		670		
Testing Condition			STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT
Maximum Power	Pmax	[Wp]	650	492,07	655	495,85	660	499,64	665	503,42	670	507,21
Maximum Power Voltage	Vmp	[V]	36,79	34,24	37,00	34,43	37,21	34,63	37,42	34,82	37,63	35,02
Maximum Power Current	lmp	[A]	17.67	14,37	17,71	14,40	17,74	14,42	17,78	14,46	17,81	14,48
Open Circuit Voltage	Voc	[V]	44,34	41,79	44,59	42,03	44,85	42,26	45,10	42,50	45,35	42,74
Short Circuit Current	Isc	[A]	18.76	15,11	18,80	15,15	18,84	15,17	18,88	15,21	18,91	15,23
Module Efficiency	Eff	[%]	20.93		21,09		21,25		21,41		21,57	
Maximum Series Fuse	IR	[A]					3	30				
Maximum System Voltage	Vsys	[V]	1500 V DC									

⁽¹⁾ Measurement Tolerances: Pmax (\pm 3%), Isc & Voc (\pm 3%) - Power Classification 0/+5W

Mechanical Data

Dimensions	2384 mm x 1303 mm x 35 mm
Weight	33,5 Kg
Cell Type	Mono Perc - 210mm x 105mm (2 x 66 Pcs) - G12
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	4mm ² - Length = 350mm or customized

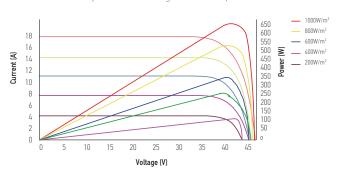
Dimensions



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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	-0.362% / °C
Voc Temperature Coefficient	-0.262% / °C
Isc Temperature Coefficient	+0.042% / °C
Operating Temperature	-40~+85°C
Nominal Operating Module Temperature (NMOT)	$42 \pm 2^{\circ}C$

Packing Configuration

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

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⁽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