

MONO CRYSTALLINE HALF CUT MODULE

550 / 555 / 560 / 565 / 570 / 575 / 580 Watts

Panther Eco Value Series



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		25 Years Limited Product Warranty
	Low Resistive Losses		Higher Light Conversion



Guaranteed mechanical resistance to severe weather conditions



Positive Tolerance

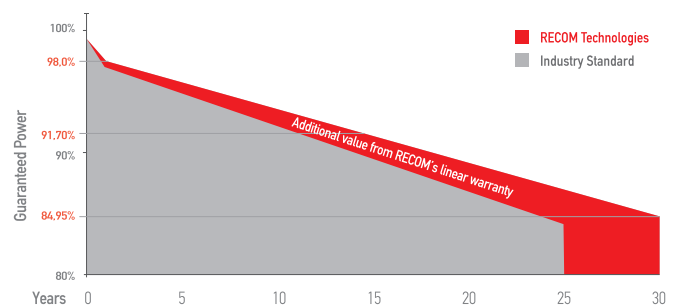


100 % electro-luminescence tested

Tests, Certifications and Warranties

Standard Tests	IEC 61215, IEC 61730 & UL 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	<ul style="list-style-type: none"> 25-year limited product warranty 15-year manufacturer warranty on 91.70% of the nominal performance 30-year transferable linear power output warranty

Linear Performance Warranty



First Year Output | **≥ 98%** 2-30 Year Decline | **≤ 0.45%** 30 Year Output | **≥ 84.95%**

Panther

MONO CRYSTALLINE HALF CUT MODULE

RCM-xxx-7MF (xxx=550-580)

Electrical Characteristics

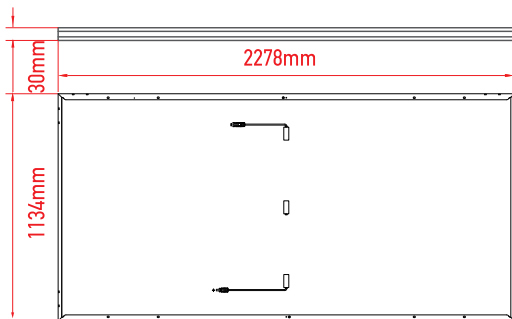
POWER CLASS ⁽¹⁾			550		555		560		565		570		575		580	
Testing Condition			STC ⁽²⁾	NMOT ⁽³⁾	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT
Maximum Power	P _{max}	[Wp]	550	413	555	417	560	421	565	425	570	429	575	433	580	437
Maximum Power Voltage	V _{mp}	[V]	41.50	38.99	41.64	39.12	41.77	39.25	41.92	39.38	42.07	39.51	42.22	39.64	42.37	39.77
Maximum Power Current	I _{mp}	[A]	13.26	10.61	13.33	10.67	13.41	10.73	13.48	10.79	13.55	10.85	13.62	10.91	13.69	10.97
Open Circuit Voltage	V _{oc}	[V]	50.21	47.70	50.34	47.82	50.47	47.94	50.60	48.06	50.74	48.20	50.88	48.33	51.02	48.46
Short Circuit Current	I _{sc}	[A]	14.00	11.30	14.07	11.36	14.15	11.42	14.23	11.49	14.31	11.55	14.39	11.62	14.47	11.68
Module Efficiency	Eff	[%]	21,29		21,48		21,68		21,87		22,07		22,26		22,45	
Maximum Series Fuse	IR	[A]	25													
Maximum System Voltage	VSYS	[V]	1500V DC													

(1) Measurement Tolerances: P_{max} (± 3%), I_{sc} & V_{oc} (± 3%) - Power Classification 0/+5W
 (2) STC (Standard Testing Condition): Irradiance 1000W/m², Cell Temperature 25°C, AM 1.5
 (3) NMOT (Nominal Operating Module Temperature): Irradiance 800W/m², NMOT, Ambient Temperature 20°C, AM 1.5, Wind Speed 1m/s

Mechanical Data

Dimensions	2278 mm x 1134 mm x 30 mm
Weight	28,4 Kg
Cell Type	Mono Perc –182mm x 91mm (2 x 72 Pcs) - M10
Front Glass	3.2 mm Tempered and low iron glass + Anti Reflective Coating
Rear Side	Anti-aging film
Frame	Anodized Aluminium Alloy
Junction Box	IP68, 3 Bypass diodes
Connector	MC4 Connector
Output cable	4mm ² - Length: 350 mm (or customized)

Dimensions

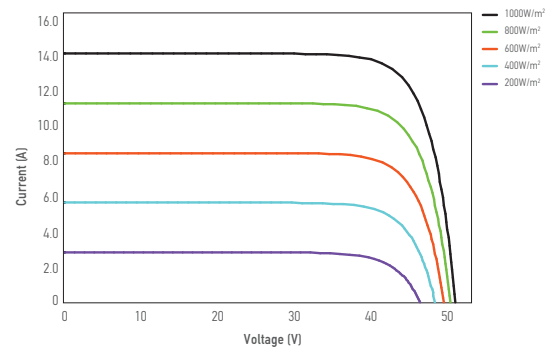


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I-V Curve

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



Temperature Characteristics

P _{max} Temperature Coefficient	-0.300% / °C
V _{oc} Temperature Coefficient	-0.250% / °C
I _{sc} Temperature Coefficient	+0.046% / °C
Operating Temperature	-40~+85 °C
Nominal Operating Module Temperature (NMOT)	45 ± 2 °C

Packing Configuration

Container	40' HC
Pieces per Pallet	37
Pallets per Container	20
Pieces per Container	(37+37)x10=740 pcs

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