MONO CRYSTALLINE HALF-CUT BIFACIAL MODULE
540 / 545 / 550 / 555 Watts
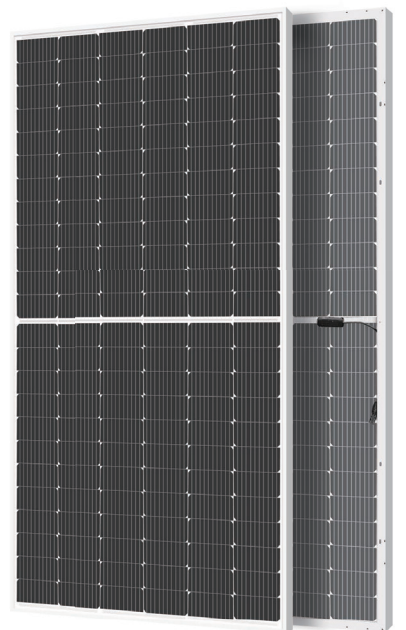
Panther Series

EUROPEAN MANUFACTURER

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

+ Wp

Positive Tolerance

EL

100 % electro-luminescence tested

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

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
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 • 30-year transferable linear power output warranty

Linear Performance Warranty

RECOM Technologies
Industry Standard

Additional value from RECOM's linear warranty

| 100% | 98,0% | 91,70% | 90% | 84,95% | 80% |
| Years | 0 | 5 | 10 | 15 | 20 | 25 | 30 |
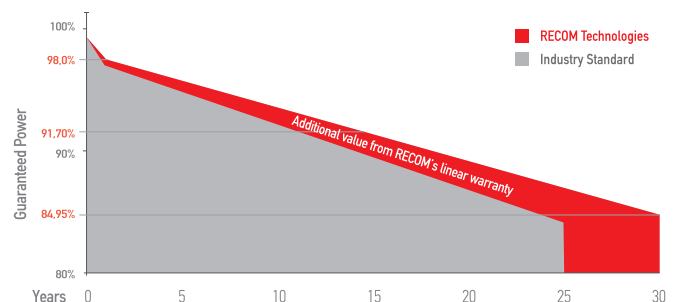
First Year Output	≥ 98%	2-30 Year Decline	≤ 0.45%	30 Year Output	≥ 84.95%

Panther
MONO CRYSTALLINE HALF-CUT BIFACIAL MODULE
RCM-xxx-7BMF (xxx=540-555)

Electrical Characteristics

POWER CLASS [1]			540		545		550		555	
Testing Condition			STC	NMOT	STC	NMOT	STC	NMOT	STC	NMOT
Maximum Power	Pmax	[Wp]	540	403,1	545	406,9	550	410,9	555	414,4
Maximum Power Voltage	Vmp	[V]	41,69	38,86	41,94	39,09	42,19	39,33	42,42	39,54
Maximum Power Current	Imp	[A]	12,96	10,38	13,00	10,41	13,05	10,45	13,09	10,48
Open Circuit Voltage	Voc	[V]	49,78	46,56	50,00	46,76	50,25	46,99	50,50	47,23
Short Circuit Current	Isc	[A]	13,59	10,97	13,64	11,01	13,69	11,05	13,73	11,08
Module Efficiency	Eff	[%]	20,9		21,1		21,3		21,5	
Maximum Series Fuse	I$_R$	[A]	25							
Maximum System Voltage	V$_{SYS}$	[V]	1500 V DC							

(1) Measurement Tolerances: Pmax (± 3%), Isc & Voc (± 3%) – 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
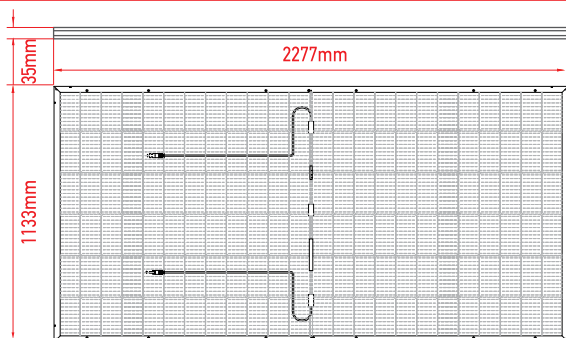
Bi Facial Output (4)

POWER CLASS			540		545		550		555	
			Pmax [Wp]	Eff [%]	Pmax [Wp]	Eff [%]	Pmax [Wp]	Eff [%]	Pmax [Wp]	Eff [%]
Power with Backside Gain	+5	[%]	567,0	22,0%	572,3	22,2%	577,5	22,4%	582,8	22,6%
	+10	[%]	594,0	23,0%	599,5	23,2%	605,0	23,5%	610,5	23,7%
	+15	[%]	621,0	24,1%	626,8	24,3%	632,5	24,5%	638,3	24,7%
	+20	[%]	648,0	25,1%	654,0	25,4%	660,0	25,6%	666,0	25,8%
	+25	[%]	675,0	26,2%	681,3	26,4%	687,5	26,6%	693,8	26,9%
	+30	[%]	702,0	27,2%	708,5	27,5%	715,0	27,7%	721,5	28,0%

(4) Bifaciality Factor > 70% - Back-side power gain depends upon the specific project albedo - Efficiency is according to the surface of the module

Mechanical Data

Dimensions	2277mm x 1133mm x 35mm (89.65 x 44.60 x 1.4 in)
Weight	29.0 Kg (63,93 lb)
Cell Type	Mono Perc – 182mm x 91mm (7.17 x 3.59 in) (2x72 Pcs) – M10
Front Glass	3.2mm (0.13 in) Tempered and low iron glass + ARC
Rear Side	Anti-aging film (Clear)
Frame	Anodized Aluminium Alloy
Junction Box	IP68 - 3 Bypass Diodes
Connector	Original MC4 - EVO2
Output cable	4mm² (0.16 in²) - Length: 300mm (11.81in) or can be customized

I-V Curve

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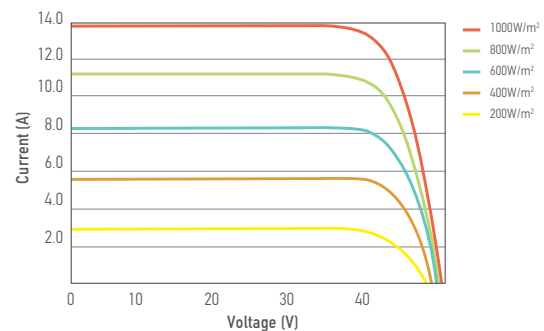

Dimensions

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

Temperature Characteristics

Pmax Temperature Coefficient	–0.35% / ⁰C
Voc Temperature Coefficient	–0.22% / ⁰C
Isc Temperature Coefficient	+0.05% / ⁰C
Operating Temperature (IEC)	–40~+85 ⁰C
Operating Temperature (UL)	–40~+90 ⁰C
Nominal Operating Module Temperature (NMOT)	42 ± 2 ⁰C

Packing Configuration

Container	40'HC
Pieces per Pallet	31
Pallets per Container	20
Pieces per Container	(31+31) x 10=620