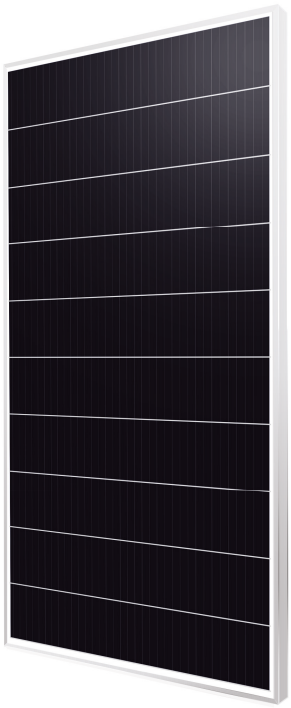
MONO CRYSTALLINE MODULE - SHINGLED CELL TECHNOLOGY

375 / 380 / 385 / 390 / 395 / 400 Watts

Puma Series

Superior Performance and Reliability

Shingled technology eliminates traditional ribbon connection with shingles connected in series.
By removing the soldered ribbons, the active area of the module is improved and thermal stresses are reduced - resulting in exceptional efficiency and reliability over standard interconnections.



Outstanding performance under extreme heat as well as low intensity solar radiation

Pmax

Industry leading low Pmax thermal coefficient

Wp

Positive Tolerance

EL

100 % electro-luminescence tested

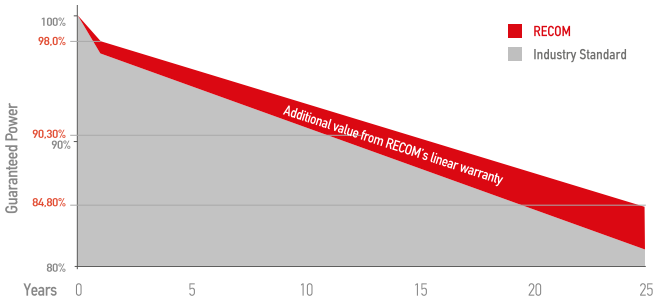
Key Benefits

- Higher yield per surface area
- Low Pmax temperature Coefficient
- Higher yield in hot climate
- 25 Years Limited Product Warranty
- Low LCOE
- Low Resistive Losses

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
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%/+5% (STC condition)
Warranties	• 25-year limited product warranty • 15-year manufacturer warranty on 90.30% of the nominal performance • 25-year transferable linear power output warranty

Linear Performance Warranty



First Year Output	≥ 98.0%	2-25 Year Decline	≤ 0.55%	25 Year Output	≥ 84.80%

MONO CRYSTALLINE MODULE - SHINGLED CELL TECHNOLOGY

RCM-xxx-SMK (xxx=375-400)

Electrical Characteristics

POWER CLASS [1]			375		380		385		390		395		400	
Testing Condition			STC	*NMOT*	STC	*NMOT*	STC	*NMOT*	STC	*NMOT*	STC	*NMOT*	STC	*NMOT*
Maximum Power	Pmax	[Wp]	375	*282*	380	*286*	385	*290*	390	*294*	395	*297*	400	*301*
Maximum Power Voltage	Vmp	[V]	40.4	*38,5*	40.6	*38,7*	40.8	*38,9*	40,8	*38,9*	40,9	*39,0*	41.0	*39,1*
Maximum Power Current	Imp	[A]	9,28	*7,33*	9,36	*7,39*	9,44	*7,45*	9,56	*7,55*	9,66	*7,63*	9,76	*7,71*
Open Circuit Voltage	Voc	[V]	48,9	*46,6*	49,1	*46,8*	49,3	*47,0*	49,3	*47,0*	49,4	*47,1*	49,5	*47,2*
Short Circuit Current	Isc	[A]	9,89	*7,97*	9,93	*8,00*	9,98	*8,04*	10,03	*8,08*	10,07	*8,11*	10,12	*8,15*
Module Efficiency	Eff	[%]	20,0		20,3		20,5		20,8		21,1		21,3	
Maximum Series Fuse	IR	[A]	20											
Maximum System Voltage	VSYS	[V]	1000V / 1500V DC (IEC)											

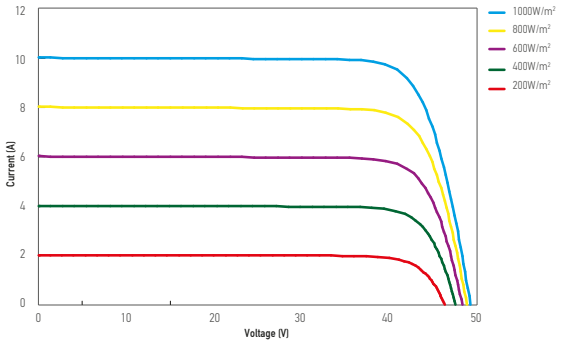
(1) Measurement Tolerances: Pmax (± 3%), Isc & Voc (± 5%) - Power Classification 0/+5W
(2) STC (Standard Testing Condition): Irrandiance 1000W/m², Cell Temperature 25°C, AM 1.5
(3) NMOT (Nominal Operating Module Temperature): Irrandiance 800W/m², NMOT, Ambient Temperature 20°C, AM 1.5, Wind Speed 1m/s

Mechanical Data

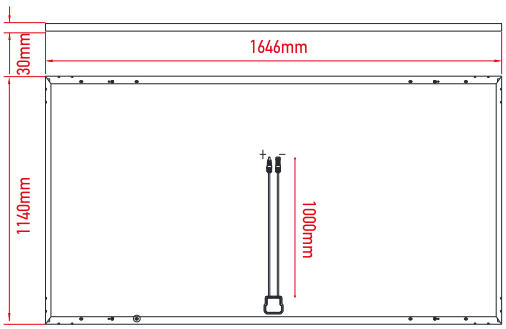
Dimensions	1646mm x 1140mm x 30 mm
Weight	19 Kg
Cell Type	PERC Mono-crystalline (158.75 mm) -G1
Front Glass	3.2mm Tempered and low iron glass + ARC
Backsheet	Anti-aging film
Frame	Anodized Aluminum Alloy
Junction Box	IP68 - 2 bypass diodes
Connector	MC4 compatible
Cable	4,0m² Length = 1000mm or customized

I-V Curve

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



Dimensions



Temperature Characteristics

Pmax Temperature Coefficient	-0.34% / °C
Voc Temperature Coefficient	-0.27% / °C
Isc Temperature Coefficient	+0.04% / °C
Operating Temperature	-40~+85 °C
(NMOT) Nominal Module Operating Temperature	42.3 ± 2 °C

Packing Configuration

Container	40'HC
Pieces per Pallet	36
Pallets per Container	28
Pieces per Container	(36+36)x14=1008 pcs

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**Release RCM-xxx-SMK(xxx=375-400)-N-G1-30-SW-013-2021-07-v1.0