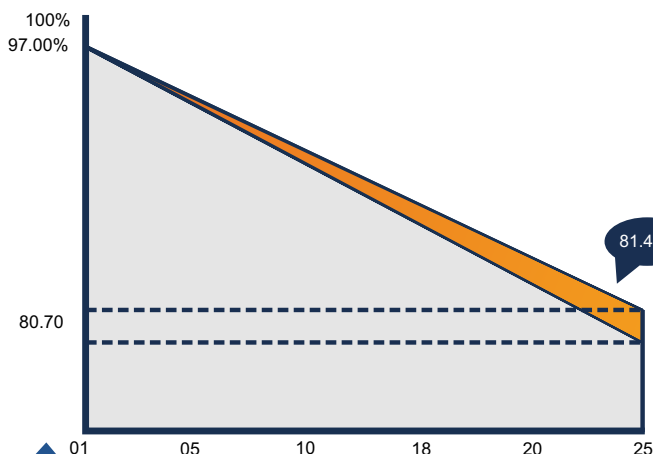
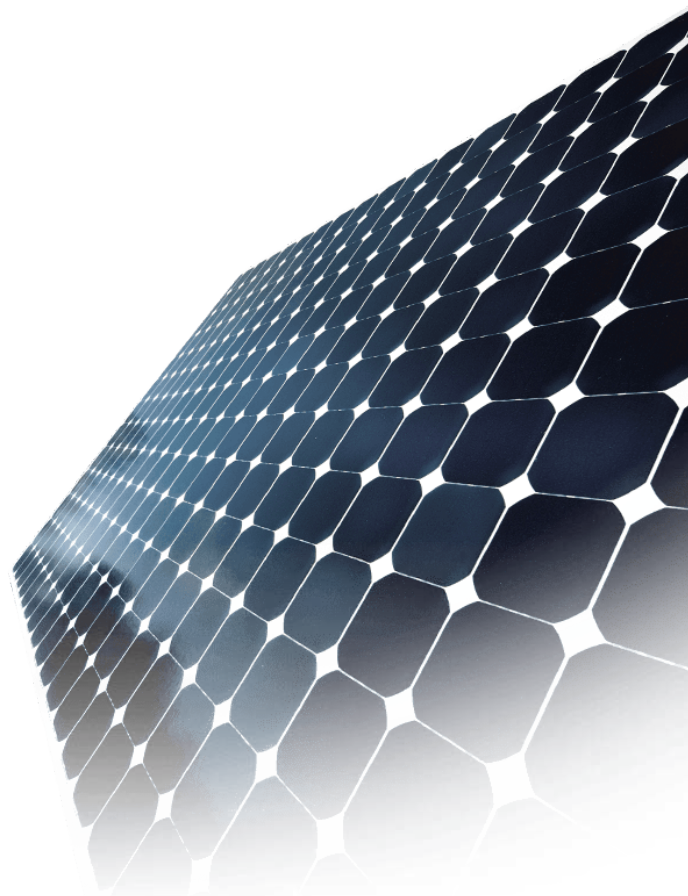


## NEOSOL ONYX SERIES

### MONOPERC -72 Cells 395 Wp | 400 Wp | 405 Wp | 410 Wp

### Key Features

- 
**High Module Conversion Efficiency**  
 Higher module conversion efficiency (up to 19.95 %) benefit with PERC.
- 
**Excellent Durability and reliability**  
 Tested & withstand for 3X IEC condition, certified by TÜV Rheinland
- 
**Positive Tolerance Cell Output**  
 Guaranteed 0~+4.99 Wp positive tolerance to ensure power Positive output
- 
**Excellent PID Resistance**  
 Excellent Anti-PID performance guarantee limited power degradation and certified for up-to 288 Hrs.
- 
**Rigorous Testing Criteria**  
 100% EL inspection ensuring defect-free modules.
- 
**Excellent weak light performance**  
 Advanced glass and surface texturing allow for excellent performance in low-light environment.
- 
**Withstanding Harsh Environment**  
 Reliable quality leads to a better sustainability even in harsh environment like desert, farm and coastline, ammonia.
- 
**Extended Wind and Snow load Tests**  
 Certified to withstand: wind load (2400 Pascal) and snow load (5400 Pascal).
- 
**Current Sorting**  
 To minimize the current mismatch losses to maximize system power output.



### Linear Performance Warranty

Product Warranty 10 Years: Material & Processing.  
 First year Degradation Upto -3.0%

Linear Power output 25 : 2-25 Annual degradation -0.65%





## Solar Module Specification

### Electrical Data Performance

Conditions	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Peak Power Pmax(0 ~+ 4.99)Wp	395	293	400	296	405	293	410	296
Maximum voltage, Vmpp	40.53	36.81	40.65	36.99	42.4	36.81	38.6	36.99
Maximum current, Impp	9.75	7.96	9.85	8.02	9.75	7.96	10.63	8.02
Open circuit voltage, Voc	49.04	44.91	49.19	45.13	49.16	44.91	44.9	45.13
Short circuit current, Isc	10.23	8.45	10.34	8.51	10.23	8.45	11	8.51
<b>Module Efficiency(%)</b>	<b>≥19.70</b>		<b>≥19.95</b>		<b>≥20.2</b>		<b>≥20.6</b>	
Operating Temperature(°C)	-40°C~+85°C							
Maximum system voltage	1500 VDC							
Maximum series fuse rating	15A							
Power tolerance	0~+3%							
Temperature coefficients of Pmax	-0.38%/°C							
Temperature coefficients of Voc	-0.30%/°C							
Temperature coefficients of Isc	0.051%/°C							
Nominal operating cell temperature (NOCT)	45 ± 2 °C							
Fire Safety	Class-C							
Application	Class-A							
Safety Class	Class II							

STC: Irradiance 1000 W/m<sup>2</sup> module temperature 25 °C, Am=1.5; NOCT: Irradiance 800 W/m<sup>2</sup>, ambient temperature 20°C, Am=1.5, Wind speed 1m/s. Average power reduction of 4.5% at 200 W/m<sup>2</sup> as per IEC 60904-1. Measuring Uncertainty +/- 3%

### MODULE MECHANICAL DATA

SPECIFICATION	DATA
Cell Type	PERC Monocrystalline, 72 Cells (6x12)
Dimensions	1985x1003x35mm
Weight	22.0 kgs
Front Cover	3.2 mm ARC Tempered Glass
Cell Encapsulation	EVA
Backsheet	Composite Film
Frame Material	Silver Anodized Aluminium Profile, (black frame on request)
J-Box	IP67, 3 diodes
Cable	1.2 Meters, 4 mm
Connectors	MC4 Compatible Connector IEC/UL Certified

### I-V Characteristics At Different Irradiations

