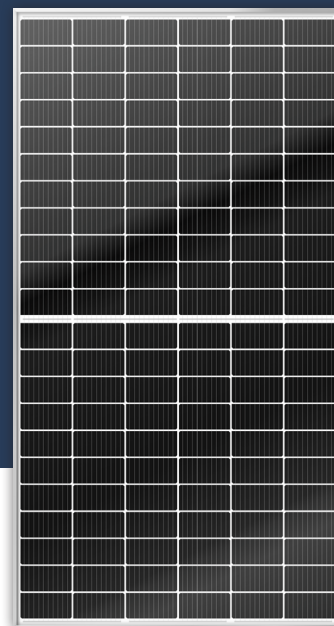




# 490-505W

High efficiency monofacial single glass PERC module

## TS-SW66



Bifacial technology allows for the harvesting of up to an additional 25% energy from the rear side of the module.



Excellent low irradiance performance.



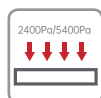
Enhanced light trapping and optimized current collection contribute to the improvement of both module power output and reliability.



Industry leading lowest thermal coefficient of power.



Design optimized for lower operating current, resulting in minimized hot spot loss and improved temperature coefficient.

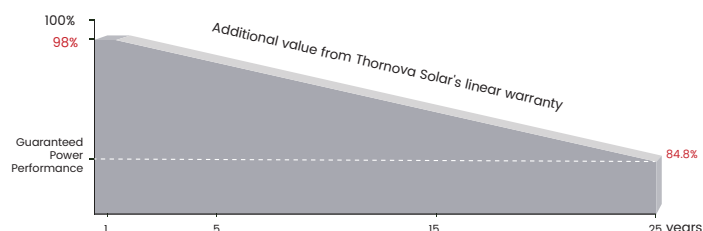


Certified to withstand:  
wind load (2400 Pa) and  
snow load (5400 Pa).



100% triple EL test  
enables remarkable reduction of  
module hidden crack rate.

## LINEAR PERFORMANCE WARRANTY



**15** years

Product quality & process guarantee

**25** years

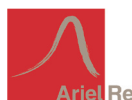
Linear power guarantee

**0.55** %

Annual degradation

## RE INSURANCE

**Munich RE**



\* Optional performance warranty insurance. Please contact our local sales staff for more information.

## COMPREHENSIVE CERTIFICATES



ISO 9001: Quality Management System

ISO 14001: Environmental Management System Standard

ISO 45001: International Occupational Health and Safety Assessment System Standard

\* Different markets have different certification requirements. Also, the products are under rapid innovation. Please confirm the certification status with regional sales representatives.

## ELECTRIC CHARACTERISTICS

2×66cells

Model of modules	TS-SW66(490)		TS-SW66(495)		TS-SW66(500)		TS-SW66(505)	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Peak power - $P_{mp}$ (W)	490	365	495	369	500	373	505	376
Open circuit voltage - $V_{oc}$ (V)	45.25	42.71	45.34	42.80	45.43	42.88	45.54	42.99
Short circuit current - $I_{sc}$ (A)	13.71	11.08	13.78	11.13	13.85	11.19	13.95	11.27
MPP voltage - $V_{mp}$ (V)	37.27	34.89	37.34	34.96	37.41	35.02	37.53	35.13
MPP current - $I_{mp}$ (A)	13.15	10.46	13.26	10.55	13.37	10.64	13.46	10.71
Module efficiency - $\eta_m$ (%)	20.6		20.8		21.1		21.3	

**STC** (Standard Testing Conditions): Irradiance 1000W/m<sup>2</sup>, Cell Temperature 25 °C, Spectra at AM1.5

**NOCT** (Nominal Operating Cell Temperature): Irradiance 800W/m<sup>2</sup>, Ambient Temperature 20°C, Spectra at AM1.5, Wind at 1m/s

## STRUCTURAL CHARACTERISTICS

Module dimension (L*W*H)	2094 x 1134 x 35 mm (82.44 x 44.65 x 1.38 inch)
Weight	25.3 kg (55.78 lbs)
Number of cells	132 cells
Cell	PERC monocrystalline(7.17 x 3.58 inch)
Glass	Tempered, 32 mm AR, High transmittance, Low iron
Backsheet	White backsheet
Frame	Anodized aluminum alloy
Junction box	IP68
Output wire	4.0 mm <sup>2</sup>
Wire length	300 mm / 1200 mm / Customized length
Connector	MC4 - EVO2
Packing specification	31 pcs/Pallet; 682 pcs/40'HQ

## OPERATING PARAMETERS

Power tolerance (W)	(0,+5)
Maximum system voltage (V)	1500
Maximum rated fuse current (A)	25
Current operating temperature (°C)	-40~+85 °C

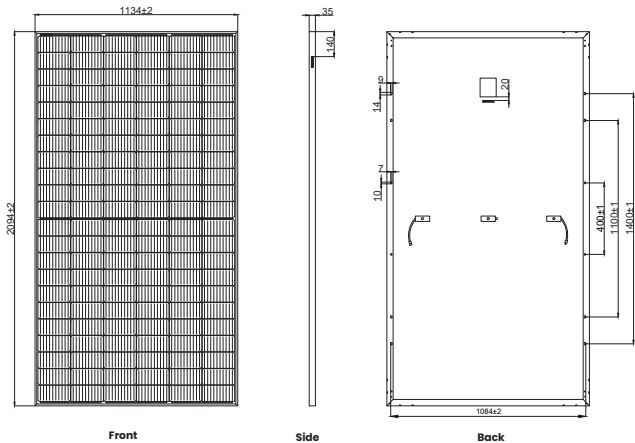
## MECHANICAL LOADING

Front side maximum static loading (Pa)	5400
Rear side maximum static loading (Pa)	2400
Hailstone test (mm)	35

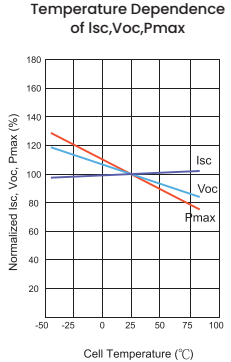
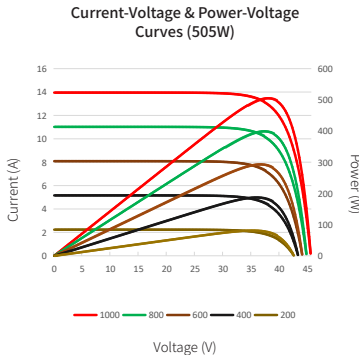
## TEMPERATURE RATINGS

Temperature coefficient ( $P_{max}$ )	-0.33 %/°C
Temperature coefficient ( $V_{oc}$ )	-0.26 %/°C
Temperature coefficient ( $I_{sc}$ )	+0.06 %/°C
Nominal operating cell temperature	45±2 °C

## MODULE DIMENSIONS (MM)



\* The unmarked tolerance is ±1 mm  
Length shown in mm



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