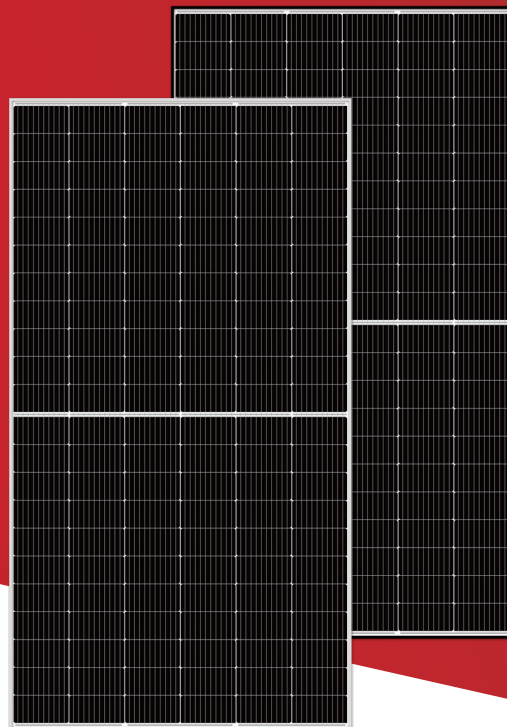


# Zosma™ M

## 485-505W

High Efficiency Half-Cell Mono PERC Module



Excellent low irradiance performance



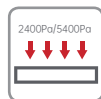
Better light trapping and current collection to improve module power output and reliability



Industry-leading, lowest thermal coefficient



Optimized electrical design and lower operating current for reduced hot spot loss and better temperature



2400Pa/5400Pa

Certified to withstand 2400 Pa of wind load and 5400 Pa of snow load



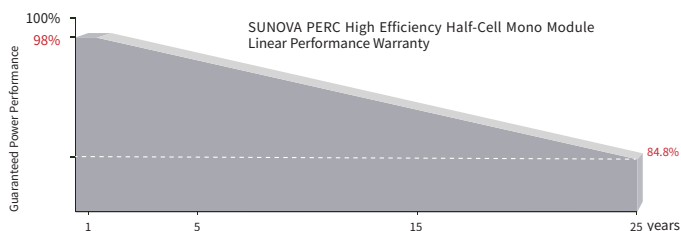
100% triple EL test, which greatly reduces the hidden cracks rate

### PERFORMANCE INSURANCE



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

### LINEAR PERFORMANCE WARRANTY



**15** years

Product quality & process guarantee

**25** years

Linear power guarantee

**0.55** %

Annual degradation over 25 years

### COMPREHENSIVE CERTIFICATES



IEC61215/IEC61730/IEC61701/IEC62716/  
IEC62804/IEC60068/UL61730

ISO 9001: Quality Management System

ISO 14001: Environmental Management System Standard

ISO 45001: International Occupational Health and Safety Assessment System Standard

SA 8000: 2014 Social Accountability Management System

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

## ELECTRICAL CHARACTERISTICS

Model of modules	SS-485-66MDH		SS-490-66MDH		SS-495-66MDH		SS-500-66MDH		SS-505-66MDH	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum power — $P_{mp}$ (W)	485	361	490	365	495	369	500	373	505	376
Open-circuit voltage — $V_{oc}$ (V)	45.16	42.63	45.25	42.71	45.34	42.80	45.43	42.88	45.54	42.99
Short-circuit current — $I_{sc}$ (A)	13.64	11.02	13.71	11.08	13.78	11.13	13.85	11.19	13.95	11.27
Maximum power voltage — $V_{mp}$ (V)	37.17	34.80	37.27	34.89	37.34	34.96	37.41	35.02	37.53	35.13
Maximum power current — $I_{mp}$ (A)	13.05	10.38	13.15	10.46	13.26	10.55	13.37	10.64	13.46	10.71
Module efficiency — $\eta_m$ (%)	20.42		20.64		20.85		21.06		21.27	
Power tolerance (W)	(0,+5)									
Maximum system voltage (V)	1500									
Maximum rated fuse current (A)	25									
Current operating temperature (°C)	-40~+85°C									

**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 dimensions (L*W*H)	2094 x 1134 x 35 mm
Weight	25.3 kg
Number of cells	132 cells
Cell	PERC Monocrystalline
Glass	Tempered, 3.2 mm AR, High transmittance, Low iron
Frame	Anodized aluminum alloy (Silver/Black)
Junction box	IP68, 3 bypass diodes
Output wire	4.0 mm <sup>2</sup> , wire length: 300mm/1200mm/customized
Connector	MC4 Compatible
Mechanical load	Snow load: 5400 Pa / Wind load: 2400 Pa

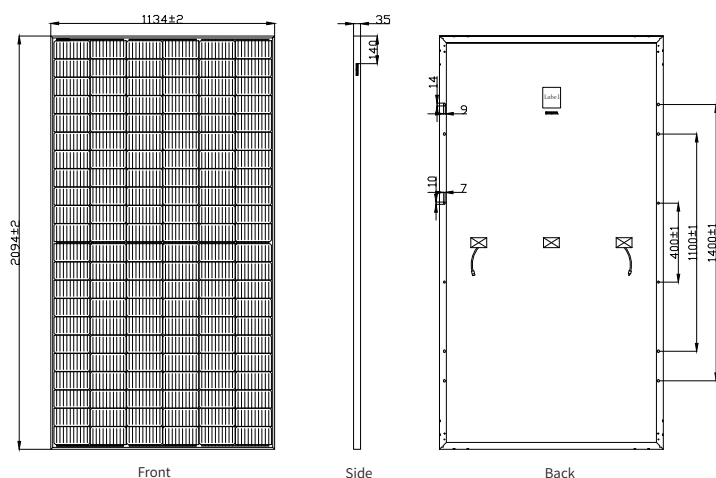
## TEMPERATURE RATINGS

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	43±2 °C

## PACKAGING CONFIGURATION

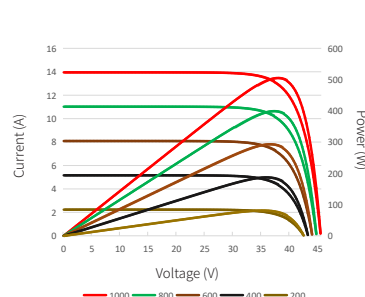
Container	40HQ
Quantity/pallet	31
Pallets/container	22
Quantity/container	682

## MODULE DIMENSIONS (MM)



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

Current-Voltage & Power-Voltage Curves (495W)



Temperature Dependence of  $I_{sc}$ ,  $V_{oc}$ ,  $P_{max}$

