SUNOVA SOLAR

Pv Tech Expert.

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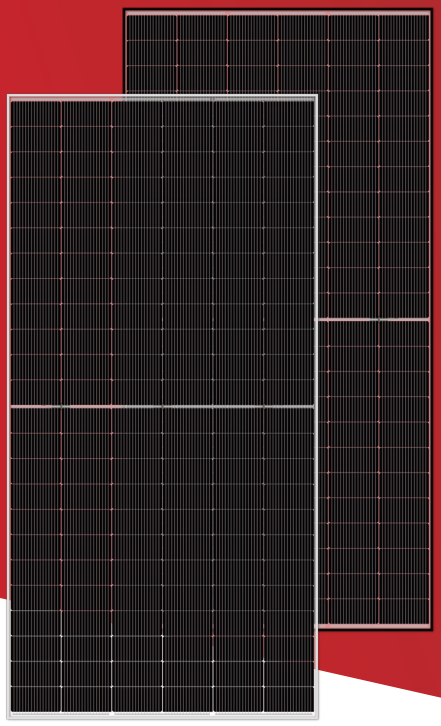
Zosma™ M Pro

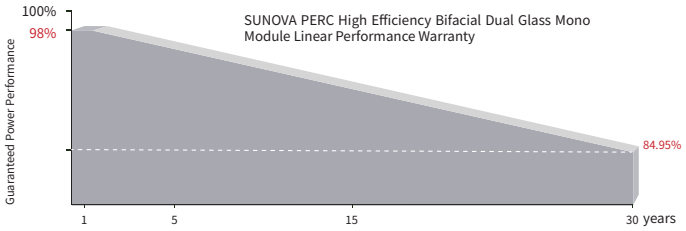
540-560W

High Efficiency Bifacial Dual Glass Mono Module



- Bifacial technology enables additional energy harvesting from rear side (up to 30%)
- 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
- Certified to withstand 2400 Pa of wind load and 5400 Pa of snow load (2400Pa/5400Pa)
- 100% triple EL test, which greatly reduces the hidden cracks rate

LINEAR PERFORMANCE WARRANTY



15 years
Product quality & process guarantee

30 years
Linear power guarantee

0.45 %
Annual degradation over 30 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.

PERFORMANCE INSURANCE

Ariel Re · LLOYD'S Underwriters · Munich RE · 中国平安 PING AN P&C INSURANCE CO.CN SZN

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

ELECTRICAL CHARACTERISTICS

144cells

Model of modules	SS-BG540-72MDH		SS-BG545-72MDH		SS-BG550-72MDH		SS-BG555-72MDH		SS-BG560-72MDH	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum power — P_{mp} (W)	540	402	545	406	550	410	555	414	560	417
Open-circuit voltage — V_{oc} (V)	49.42	46.65	49.51	46.73	49.60	46.82	49.68	46.90	49.76	46.97
Short-circuit current — I_{sc} (A)	13.85	11.19	13.94	11.26	14.04	11.34	14.13	11.42	14.25	11.51
Maximum power voltage — V_{mp} (V)	40.71	38.11	40.76	38.16	40.83	38.22	40.89	38.28	40.95	38.33
Maximum power current — I_{mp} (A)	13.27	10.56	13.38	10.65	13.48	10.73	13.58	10.81	13.68	10.89
Module efficiency — η_m (%)	20.90		21.10		21.29		21.48		21.68	

STC (Standard Testing Conditions): Irradiance 1000W/m^2, Cell Temperature 25 °C , Spectra at AM1.5
NOCT (Nominal Operating Cell Temperature): Irradiance 800W/m^2, Ambient Temperature 20°C , Spectra at AM1.5, Wind at 1m/s

ELECTRICAL CHARACTERISTICS WITH DIFFERENT POWER BIN (REFERENCE TO 13.5% IRRADIANCE RATIO)

Maximum power — P_{mp} (W)	591	597	602	608	613
Open-circuit voltage — V_{oc} (V)	49.42	49.51	49.60	49.68	49.77
Short-circuit current — I_{sc} (A)	15.16	15.26	15.37	15.44	15.54
Maximum power voltage — V_{mp} (V)	40.71	40.76	40.83	40.88	40.93
Maximum power current — I_{mp} (A)	14.52	14.64	14.75	14.86	14.98

STRUCTURAL CHARACTERISTICS

Module size (L*W*H)	2278 x 1134 x 30 mm
Weight	32.3 kg
Cell	144 cells, PERC Monocrystalline
Front Glass	2.0mm, Anti-Reflection Coating
Back Glass	2.0mm, Heat Strengthened Glass
Frame	Anodized aluminum alloy (Silver/Black)
Junction box	IP68, 3 bypass diodes
Output wire	4.0 mm^2
Wire length	300mm / 1200mm / customized customized
Connector	MC4 Compatible
Packing Specification	36 pcs/Pallet; 720 pcs/40'HQ

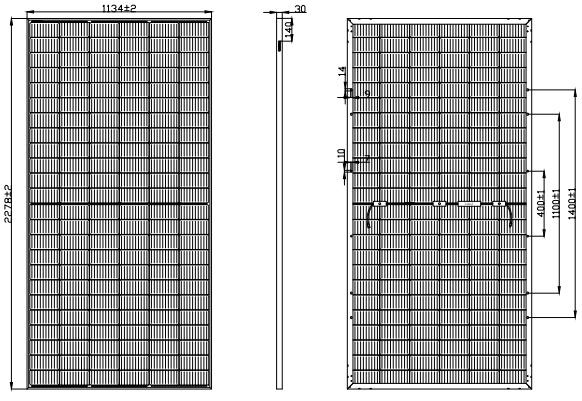
OPERATING PARAMETERS

Power tolerance (W)	(0,+5)
Maximum system voltage (V)	1500
Maximum rated fuse current (A)	30
Current operating temperature (°C)	-40~+85 °C
Mechanical load	5400 Pa / 2400 Pa

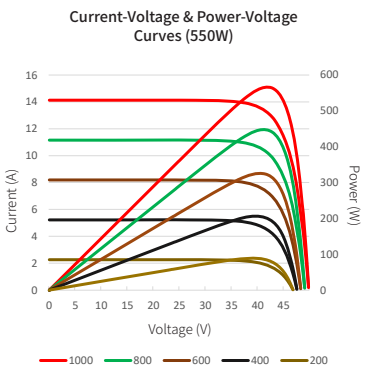
TEMPERATURE RATINGS

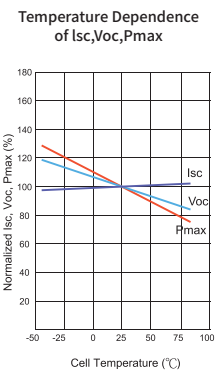
Temperature coefficient (P_{max})	-0.33%/°C
Temperature coefficient (V_{oc})	-0.26 %/°C
Temperature coefficient (I_{sc})	+0.06 %/°C
Nominal operating cell temperature	43±2 °C

MODULE DIMENSIONS (MM)



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





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Web: www.sunova-solar.com E-mail: info@sunova-solar.com