

## PERC MONO SHINGLED MODULE

### SSM450-480 WATT

#### The advantages:

##### MBB PERC solar Cell

More busbars,the less of broken and cracking,as the narrowed cell bus bar width,the light receiving area and power are increased too

##### 1500V System Voltage

1500V system voltage design compatible to 1000V/1500V and Reduce BOS cost greatly.

##### Low-Light Performance

Excellent performance in low-light environments (e.g. early morning, dusk, and cloud, etc.)

##### Positive Tolerance

Guaranteed Positive Tolerance up tp 5W

##### Withstand challenging environmental conditions

2400 Pa negative load  
5400 Pa positive load  
2400/5400 is the measured load,and the safety factor is 1.5 times

##### PID-Resistant

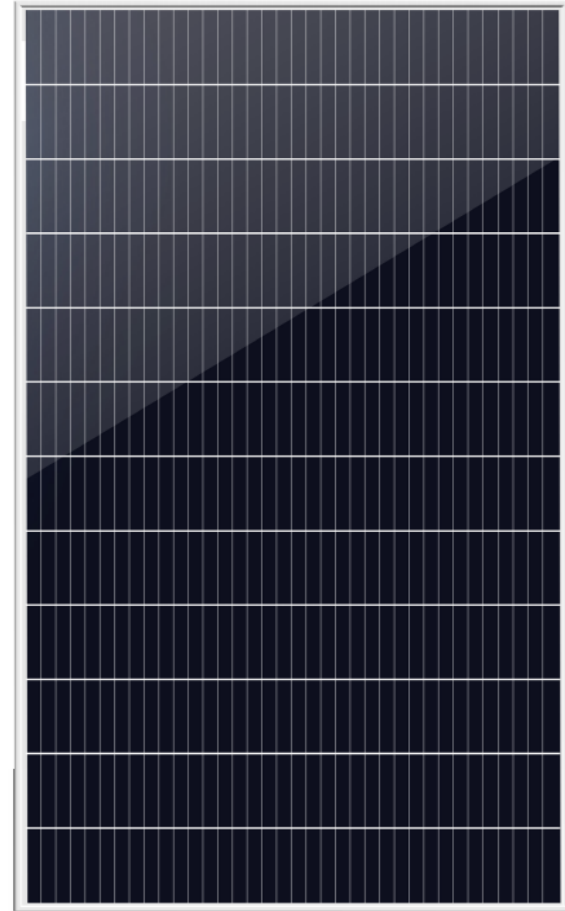
Anti-PID-Technology

##### Salt-resistant & Ammonia-Resistant

Passed salt mist & ammonia corrosion,  
blowing sand and hail testing

##### 100% electroluminescence inspection

##### 15 years manufacturer's warranty

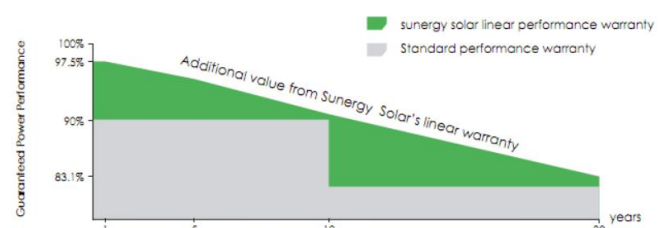


- ISO9001:2015 Quality Standards
- ISO14001:2015 Environmental Standards
- OHSAS18001 Occupational Health & Safety Standards
- IEC61215,IEC61730 certified products
- UL1703 cedified products



### LINEAR PERFORMANCE WARRANTY

15 Year Product Warranty • 30 Year Linear Power



**MONOCRYSTALLINE 432 CELLS**

Model-SSM450-480	SSM450	SSM460	SSM470	SSM475	SSM480
Nominal output Pmpp	450Wp	460Wp	470Wp	475Wp	480Wp
Nominal voltage Vmpp	40.30V	40.70V	41.10V	41.12V	41.14V
Nominal current Impp	11.17A	11.30A	11.44A	11.55A	11.67A
Short circuit current Isc	11.91A	11.95A	11.99A	12.03A	12.05A
Open circuit voltage Voc	48.80V	49.20V	49.60V	49.80V	49.85V
Module efficiency	20.10%	20.50%	20.90%	21.20%	21.38%

Electrical characteristics (at Standard Test Conditions (STC) STC:Irradiance 1000W/m , Cell temperature 25°C , AM1.5

**MECHANICAL DATA**

Solar Cells	MBB Monocrystalline PERC SOLAR CELL 158mm										
Cell Orientation	432 cells (36×12)										
Module Dimensions	1969×1140×35mm										
Weight	24.98 kg										
Glass	3.2 mm (0.13 inches),High Transmission,AR Coated Heat Strengthened Glass										
Encapsulant Material	EVA (Ethylene-Vinyl-Acetate)										
Backsheet	White Composite film										
Frame	35/40 mm(1.57 inches)Anodized Aluminium Alloy										
J-Box	IP67/IP68 rated										
Cables	Photovoltaic Technology Cable 4.0mm <sup>2</sup> (0.006 inches <sup>2</sup> ),										
Connector	MC4 /TS4 Compatible with MC4	<b>MAXIMUM RATINGS</b> <table border="1" style="width: 100%;"> <tbody> <tr> <td>Operational Temperature</td> <td>-40~+85°C</td> </tr> <tr> <td>Maximum System Voltage</td> <td>1500V DC(IEC)</td> </tr> <tr> <td>Maximum System Voltage</td> <td>1500V DC(DL)</td> </tr> <tr> <td>Max Series Fuse Rating</td> <td>20A</td> </tr> </tbody> </table>		Operational Temperature	-40~+85°C	Maximum System Voltage	1500V DC(IEC)	Maximum System Voltage	1500V DC(DL)	Max Series Fuse Rating	20A
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<b>TEMPERATURE RATINGS</b>											
NMOT(Nominal Moudule Operating Temperature)	41°C (±3°C)										
Temperature Coefficient of PMAX	-0.37%/°C										
Temperature Coefficient of VOC	-0.29%/°C										
Temperature Coefficient of ISC	0.05%/°C										

