



SUNNIVA - M18/108

425W

182±1.5x91±1.5mm
Cells 108

Monocrystalline

P-Type Half-Cell Module

Max Power Out: 425W
Max Efficiency: 21.8%
Power Tolerance: 0~3%



SMBB Technology

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



PID Resistance

Excellent Anti-PID performance guarantee via optimized mass-production process and materials control.



Durability Against Extreme Environmental Conditions

High salt mist and ammonia resistance.



Reduced Hot Spot Loss

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



Enhanced Mechanical Load

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

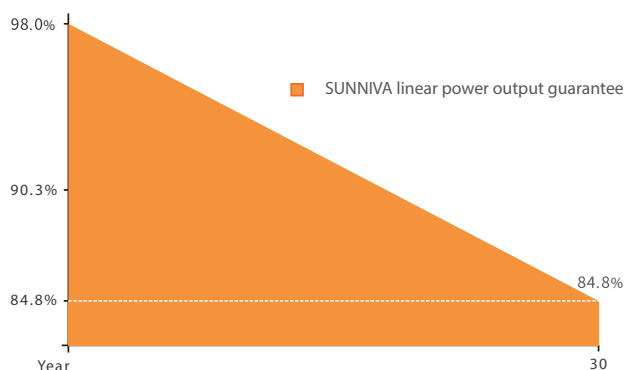


High Energy Generation, Low LCOE

Low Pmax temp coefficient increases energy production.

Superior Warranty

- 15-year material & technology warranty
- 30-year linear power output warranty

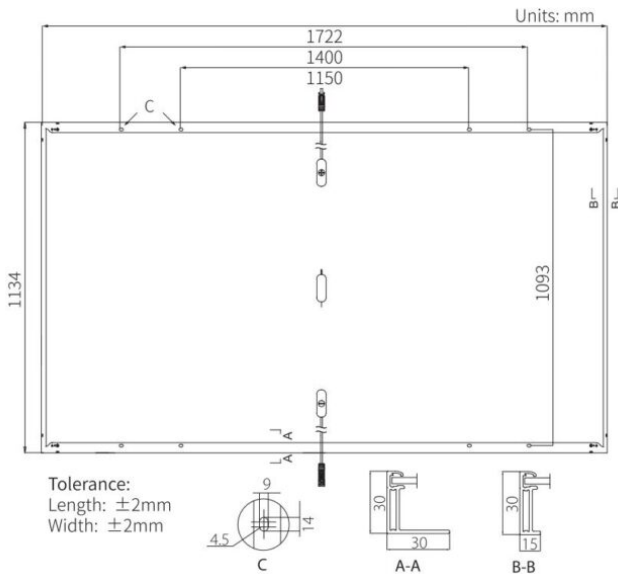


Comprehensive Products and System Certificates

- IEC 61215, IEC 61730, UL 61730
- ISO9001: 2015:ISO Quality Management System
- ISO14001: 2015:ISO Environment Management System
- ISO45001: 2018: Occupational Health and Safety
- IEC62941: Guideline for module design qualification and type approval



Engineering Drawings



Structural Parameter

Dimensions of Module	1722x1134x30mm
Weight	20.8kg
J-Box	IP68, three diodes
Glass	Single glass, 3.2mm coated tempered glass
Frame	Anodized aluminium alloy frame
Cable	4mm ² , +400, -200mm/ ± 1200 mm
Wind/ Snow Load	2400Pa/5400Pa
Connector	MC4 compatible
Cell Orientation	108 (6x18)

Electrical Specification

(STC: Irradiance 1000W/m², Cell temperature 25°C, AM1.5G — NOCT: Irradiance 800W/m², Ambient temperature 20°C, Wind speed 1m/s)

Module Type	SUNNIVA M18/108 425W	
Testing Condition	STC	NOCT
Maximum Power (Pmax) [W]	425	317.7
Maximum Power Voltage (Vmp) [V]	31.94	29.67
Maximum Power Current (Imp) [A]	13.31	10.71
Open Circuit Voltage (Voc) [V]	37.96	35.69
Short Circuit Current (Isc) [A]	14.08	11.38
Module Efficiency [%]	21.8	
Cell Type [mm]	Mono 182 ± 1.5 ×91 ± 1.5 , 108 Cells	
Operational Temperature [°C]	-40~+85°C	
Maximum System Voltage	1500V DC	
Max Series Fuse Rating	25A	

Temperature Ratings

Nominal Operating Cell Temperature	45 ± 2 °C
Temperature Coefficient of Isc	+0.05%/°C
Temperature Coefficient of Voc	- 0.265 %/°C
Temperature Coefficient of Pmax	- 0.340 %/°C

Curve Diagram

