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| SUN-AWE3000W



SAFETY & RELIABILITY

RSD Compliance
IP67



FLEXIBLE INSTALLATION

6-in-1 design enables faster installation
and comes with a lower cost



FOUR INDEPENDENT MPPT

Independent MPPT ensures greater
energy harvest, resulting in higher returns



STRONG COMMUNICATION

Encrypted WiFi/Sub-1G Solution
for Residential & Commercial



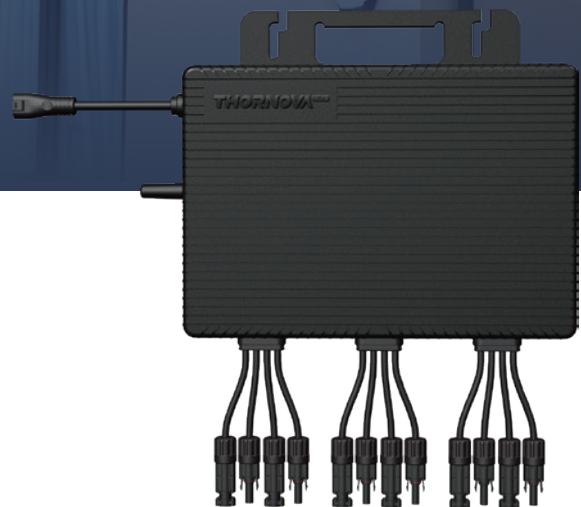
MORE COMPATIBILITY

Input current up to 18 A,
compatible with 182mm/210mm PV modules



MORE SECURITY

Low input voltage for safer rooftop installations,
minimizing arc faults and electric shocks



Model SUN-AWE3000W

Input Data (DC)

Commonly Module Power (W)	400 to 700+
Operation Voltage Range (V)	14-63
MPPT Voltage Range (V) ¹	14-63
Start-up Voltage (V)	18
Maximum Input Voltage (V)	63
Maximum Input Current (A)	6x18
Maximum Input Short Circuit Current (A)	6x25
DC Portbackfeed Current (A)	0
Overvoltage class DC port	II
Number of MPPTs	6
Number of Inputs per MPPT	1

Output Data (AC)

Rated Output Power (VA)	3000
Rated Output Current (A)	13.5
Maximum Units per 12AWG Branch ²	5
Maximum Units per 10AWG Branch ²	6
Nominal Output Voltage (V) ³	230/240, L+N+PE
Nominal Frequency (Hz)	50/60
Output overcurrent protection	Yes
Current inrush (A)	0
Overvoltage class AC port	III
Power Factor (adjustable)	>0.99(default)
Total Harmonic Distortion	<3%

Efficiency

CEC Peak Efficiency	97.20%
Nominal MPPT Efficiency	99.80%
Nighttime Power Consumption (mW)	< 50

Packing Configuration

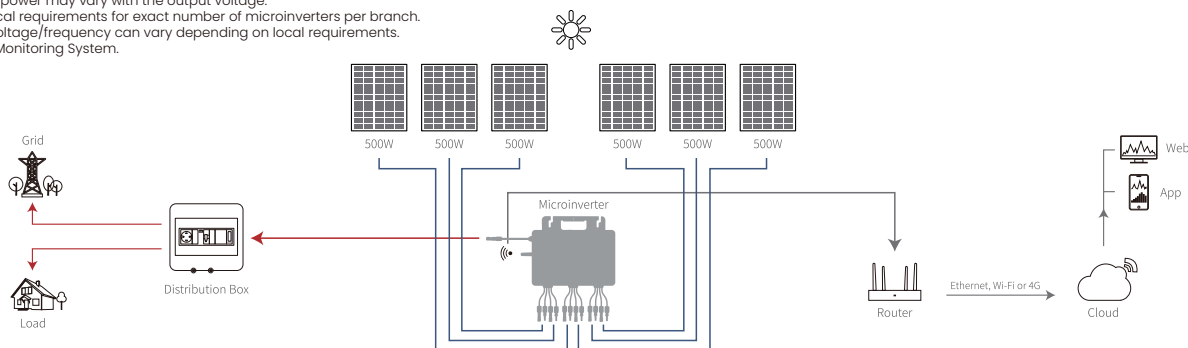
Container	20'GP / 40'HQ
Pieces/Pallet	1190*700 + 800*700
Pallets per Container	18 + 6 / 36 + 6
Pieces per Container	990 / 1800

General Data

Ambient Temperature Range (°C)	-40 to +65
Dimensions (W x H x D mm)	360 x 300 x 60
Weight (kg)	7
Enclosure rating	Outdoor IP67 (NEMA 6)
Relative humidity	0 ~ 100%, No Condensing
Max. operation altitude (m)	2000
Pollution degree	III
Cooling	Natural Convection (no fans)
Communication	WIFI
Monitoring	VaySunic Cloud ⁴
Topology	Transformerless

Compliance	ABNT NBR 16149:2013, ABNT NBR 16150:2013, ABNT NBR IEC 62116:2012, IEC 62109-2:2011, IEC 62891:2020, PORTARIA INMETRO
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*1. The output power may vary with the output voltage.
 *2. Refer to local requirements for exact number of microinverters per branch.
 *3. Nominal voltage/frequency can vary depending on local requirements.
 *4. VaySunic Monitoring System.



* The parameters delineated within this datasheet, both technical and monetary, may exhibit variations contingent upon the region. Thornova Solar provides no warranty as to their absolute accuracy. Owing to our unceasing commitment to innovation, research, development, and product enhancement, Thornova Solar retains the discretion to amend any information encapsulated in this datasheet without any preceding notification. Clients are urged to procure the most recent iteration of this datasheet and incorporate it as an intrinsic component of the legally binding agreement ratified by both parties. The English rendition of this datasheet serves purely as a point of reference. Should discrepancies arise between the English text and versions rendered in other languages, the stipulations of the English version shall take precedence.