



## | SUN-AWE2250W



### HIGHER YIELDS

60°C full power operation  
Great performance in low sunlight



### SAFETY & RELIABILITY

RSD Compliance  
IP67



### FLEXIBLE INSTALLATION

4-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

Modelo	SUN-AWE2250W
<b>Input Data (DC)</b>	
Commonly Module Power (W)	400 to 700+
Operation Voltage Range (V)	14-63
MPPT Voltage Range (V) <sup>1</sup>	14-63
Start-up Voltage (V)	18
Maximum Input Voltage (V)	63
Maximum Input Current (A)	4x17
Maximum Input Short Circuit Current (A)	4x25
DC portbackfeed current (A)	0
Overvoltage class DC port	II
Number of MPPTs	4
Number of Inputs per MPPT	1
<b>Output Data (AC)</b>	
Rated Output Power (VA)	2250
Rated Output Current (A)	10
Maximum Units per 10AWG Branch <sup>2</sup>	3
Nominal Output Voltage (V) <sup>3</sup>	220, 230, 240 / 180 ~ 280
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%
<b>Efficiency</b>	
CEC Peak Efficiency	96.50%
Nominal MPPT Efficiency	99.80%
Nighttime Power Consumption (mW)	< 50
<b>Packing Configuration</b>	
Container	20'GP / 40'HQ
Pieces/Pallet	1200x1100
Pallets per Container	16 / 36
Pieces per Container	2240 / 5760
<b>General Data</b>	
Ambient Temperature Range (°C)	-40 to +65
Dimensions (W x H x D mm)	335 x 263 x 40
Weight (kg)	6.0
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 <sup>4</sup>
Type of Isolation	Galvanically Isolated
Compliance	IEC/EN 62109-1, IEC/EN 62109-2, IEC/EN 61000-6-1/-2/-3/-4, EN50549-1: 2019, VDE-AR-N 4105: 2018, CEI0-21, TOR Erzeuger, R25: 2019, EN 300 220-1/-2, EN300328, EN301489-1/-3/-17, EN62311, C10/11, PN-EN50549-1: 2019, NC-RfG, ORDINANCE 140/2022

\*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.