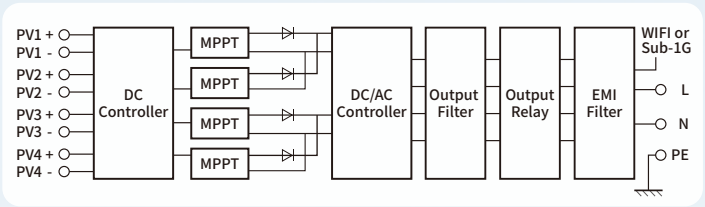
VM Series

VM2000 2250WE/BE-P4



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

Technical Specifications

VM-P4

Model	VM2000BE-P4 VM2000WE-P4	VM2250BE-P4 VM2250WE-P4
Input Data (DC)		
Commonly Module Power (W)	400 to 670+	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)	4x16	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	
Output Data (AC)		
Rated Output Power (VA)	2000	2250
Rated Output Current (A)	8.7	10
Maximum Units per 10AWG Branch[2]	6	
Maximum Units per 12AWG Branch[2]	5	
Nominal Output Voltage (V)[3]	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%	
Efficiency		
CEC Peak Efficiency	96.60%	96.50%
Nominal MPPT Efficiency	99.80%	
Nighttime Power Consumption (mW)	< 50	
Packing Configuration		
Container	20'GP / 40'HQ	
Pieces/Pallet	1280*1100	
Pallets per Container	16 / 36	
Pieces per Container	1920 / 5040	
General Data		
Ambient Temperature Range (°C)	-40 to +65	
Dimensions (W x H x D mm)	335 × 263 × 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(WE-P4) / Sub-1G(BE-P4)	
Monitoring	VaySunic Cloud[4]	
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 , ABNT NBR 16149:2013 ABNT NBR 16150:2013, ABNT NBR IEC 62116:2012, IEC 62109-2:2011, IEC 62891:2020, PORTARIA INMETRO	

*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.

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